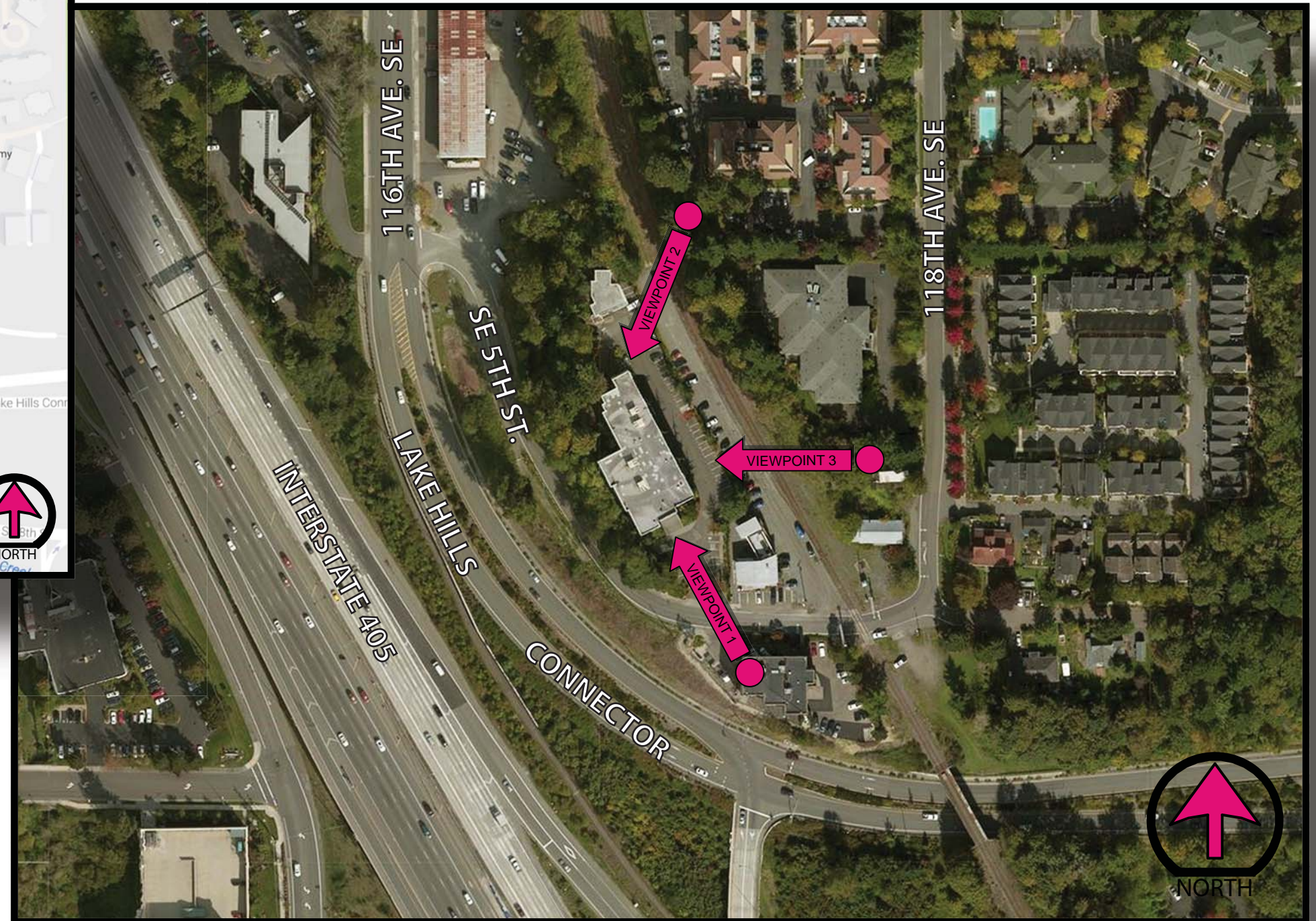
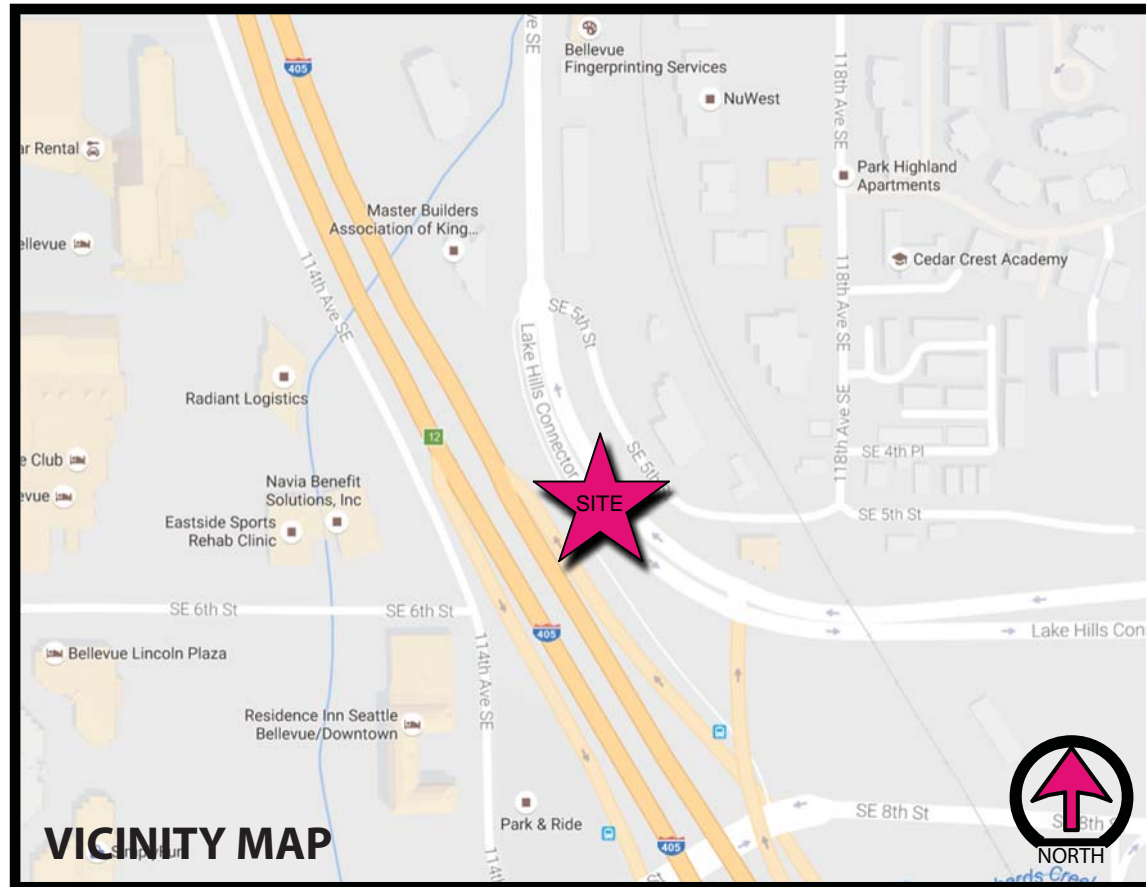




SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WA 98005



AERIAL MAP





SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WA 98005



EXISTING



PROPOSED

VIEWPOINT 1 - LOOKING NORTHWEST





SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WA 98005



VIEWPOINT 2 - LOOKING SOUTHWEST

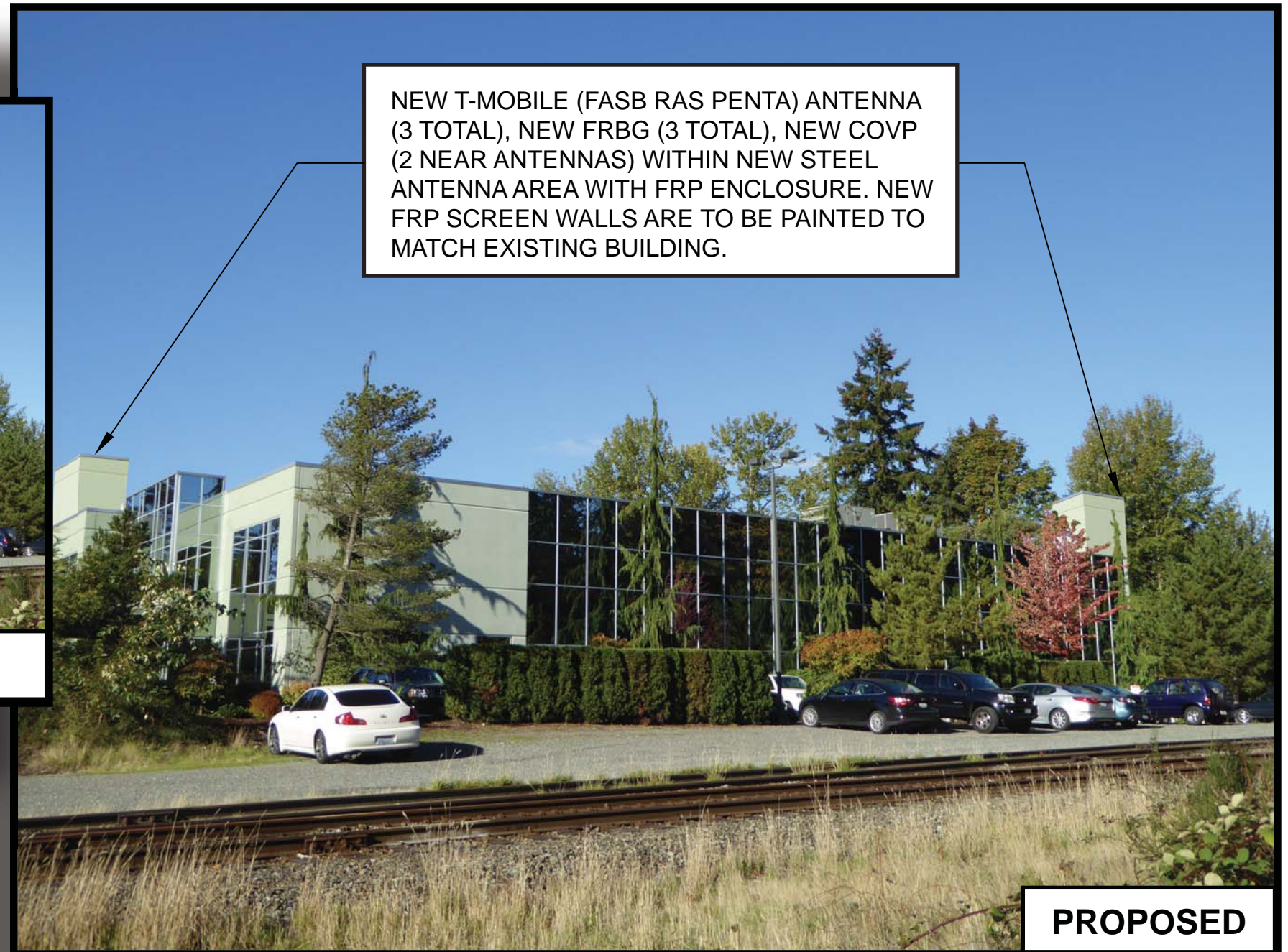




SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WA 98005



EXISTING



PROPOSED

**VIEWPOINT 3 - LOOKING WEST**



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

WASHINGTON STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES. THE WASHINGTON STATE BUILDING CODE IS COMPRISED OF THE MODEL CODE EDITIONS BELOW WITH WASHINGTON STATE AMENDMENTS:

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 UNIFORM PLUMBING CODE
- 2015 IECC/WASHINGTON STATE ENERGY CODE
- LOCAL CODES AND AMENDMENTS

FCC NOTE:

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

CODE COMPLIANCE

APPLICANT:  
T-MOBILE USA INC.  
19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

PROPERTY OWNER:  
WILBURTON OFFICE LLC  
11624 SE 5TH STREET  
BELLEVUE, WA 98005

SITE ADDRESS:  
11624 SE 5TH STREET  
BELLEVUE, WA 98005

SITE PARCEL NUMBER:  
939970-0010

COUNTY:  
KING COUNTY

LATITUDE AND LONGITUDE:  
N 47° 36' 21.4", W 122° 11' 03.5"  
(NORTHEAST SECTOR)  
(BASED ON 1A SURVEY DATED: 06/24/2016)

LEGAL DESCRIPTION:  
SEE SHEET SV-1 SITE SURVEY FOR FULL LEGAL DESCRIPTION

HANDICAP REQUIREMENTS:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, HANDICAP ACCESS REQUIREMENT(S)  
DO NOT APPLY

TOTAL LEASE AREA:  
± 408 sq. ft.  
EXISTING USE:  
OFFICE BUILDING  
NEW USE:  
UNMANNED TELECOMMUNICATIONS FACILITY  
POWER COMPANY:  
PUGENT SOUND ENERGY  
TELCO COMPANY:  
TBD  
JURISDICTION:  
CITY OF BELLEVUE  
ZONING:  
PO  
N 47° 36' 19.5", W 122° 11' 03.2"  
(SOUTHWEST SECTOR)  
(BASED ON 1A SURVEY DATED: 06/24/2016)

SITE INFORMATION

- INSTALL (3) NEW ANTENNAS (FASB RAS (PENTA))
- INSTALL (2) NEW 12x12x15' FRP ENCLOSURES FOR ANTENNAS
- INSTALL (3) NEW FHFB (INSIDE NEW ANTENNA)
- INSTALL (3) NEW FRU (INSIDE NEW ANTENNA)
- INSTALL (3) NEW FRBG NEAR NEW ANTENNA
- INSTALL (3) NEW COVP (2 BY ANTENNAS, 1 BY CABINETS)
- INSTALL (1) NEW 12x10x8' FRP ENCLOSURE WITH PLATFORM
- INSTALL (2) NEW HCS CABLE FROM COVP BY ANTENNA AREA TO CABINET AREA
- INSTALL (2) NEW EQUIPMENT CABINETS
- INSTALL (3) NEW FSMF IN CABINET
- INSTALL (3) NEW FBBC IN CABINET
- INSTALL (1) NEW UTILITY H-FRAME AND ITS EQUIPMENT
- INSTALL (1) NEW SERVICE LIGHT
- INSTALL (2) 2"Ø CONDUITS FOR POWER AND TELCO ON ROOF
- INSTALL NEW 5'X18' FENCED ENCLOSURE IN PARKING GARAGE.
- INSTALL (4) NEW YELLOW PIPE BOLLARDS IN FRONT OF FENCED ENCLOSURE

PROJECT DESCRIPTION

ZONING & PERMITTING:  
TECHNOLOGY ASSOCIATES EC, INC  
4122 FACTORIA BOULEVARD SUITE 303  
BELLEVUE, WA 98006  
CONTACT: AMANDA NATIONS  
OFFICE: (206) 778-1548  
EMAIL: amanda.nations@taec.net

SITE ACQUISITION:  
TECHNOLOGY ASSOCIATES EC, INC  
4122 FACTORIA BOULEVARD SUITE 303  
BELLEVUE, WA 98006  
CONTACT: RYAN PARROTT  
OFFICE: (206) 321-1131  
EMAIL: ryan.parrott@taec.net

CONSTRUCTION MANAGER:  
TECHNOLOGY ASSOCIATES EC, INC  
4122 FACTORIA BLVD. SE, STE. 303  
BELLEVUE, WA 98006  
CONTACT: BRAD JACOBSON  
MOBILE: (206) 375-0252  
EMAIL: bradley.jacobson@taec.net

ARCHITECTURE:  
TECHNOLOGY ASSOCIATES EC, INC  
5333 MISSION CENTER RD., STE. 220  
SAN DIEGO, CA 92108  
CONTACT: STEVEN LANE  
OFFICE: (858) 300-2346 X 1524  
EMAIL: steven.lane@taec.net

ENGINEER:  
TECHNOLOGY ASSOCIATES EC, INC  
4122 FACTORIA BLVD. SE, STE. 303  
BELLEVUE, WA 98006  
CONTACT: VLAD DIACONU, PE  
OFFICE: (216) 375-2310  
EMAIL: vlad.diaconu@taec.net

CONTACT INFORMATION

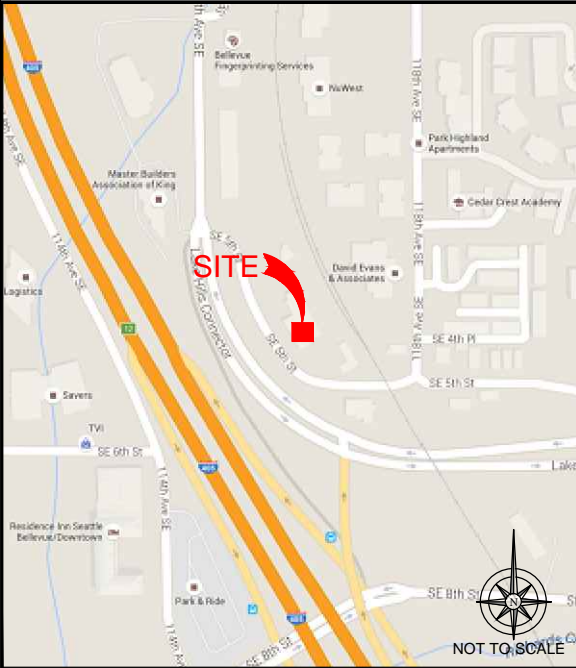
T-Mobile®

SE03416B

SURREY DOWN

11624 SE 5TH STREET

BELLEVUE, WA 98005



VICINITY MAP



LOCAL MAP

STARTING FROM 19807 NORTH CREEK PARKWAY NORTH, BOTHELL, WA 98011 :

1. HEAD EAST ON NORTH CREEK PKWY N
2. TURN RIGHT ONTO 120TH AVE NE
3. TURN RIGHT ONTO NE 195TH ST
4. USE THE LEFT 2 LANES TO TURN LEFT ONTO THE INTERSTATE 405 S RAMP TO RENTON
5. MERGE ONTO I-405 S
6. TAKE EXIT 13A FOR NORTHEAST 4TH ST
7. TURN LEFT ONTO NE 4TH ST
8. TURN RIGHT ONTO 116TH AVE NE
9. TURN LEFT ONTO SE 5TH ST
10. DESTINATION WILL BE ON THE LEFT

DRIVING DIRECTIONS

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
T-MOBILE RF ENGINEER		
SITE ACQUISITION		
CONSTRUCTION MANAGER		
SITE OWNER		
T-MOBILE DEVELOPMENT MANAGER		
T-MOBILE CONSTRUCTION MANAGER		
T-MOBILE OPS MANAGER		
T-MOBILE REGULATORY REVIEW		
T-MOBILE PROJECT MANAGER		
T-MOBILE PERMITTING		

APPROVALS

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	NOTES & LEGEND
SV-1	SITE SURVEY
SV-2	LOWER LEVEL DETAIL
A-1	SITE PLAN
A-2	ENLARGED SITE PLANS
A-2.1	GARAGE AREA
A-3	ANTENNA & EQUIPMENT PLAN
A-4	ELEVATIONS
A-5	ELEVATIONS
A-6	ELEVATIONS
A-7	ELEVATIONS
A-8	ANTENNA & EQUIPMENT DETAILS
A-9	CABINET & CONSTRUCTION DETAILS
A-10	CONSTRUCTION DETAILS
E-1	ELECTRICAL NOTES
E-2	ELECTRICAL SITE PLAN
E-3	PANEL SCHEDULE & ONE-LINE DIAGRAM
G-1	GROUNDING PLANS
G-2	GROUNDING DETAILS
RF-1	RF DETAILS
RF-2	RF DIAGRAM
S-1	STRUCTURAL NOTES
S-2	SECTOR 1 ANTENNA MOUNT STRUCTURAL DETAILS
S-2.1	SECTOR 1 ANTENNA MOUNT STRUCTURAL DETAILS
S-3	SECTOR 2 ANTENNA MOUNT STRUCTURAL DETAILS
S-3.1	SECTOR 2 ANTENNA MOUNT STRUCTURAL DETAILS

SHEET INDEX

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING LOCATIONS, CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

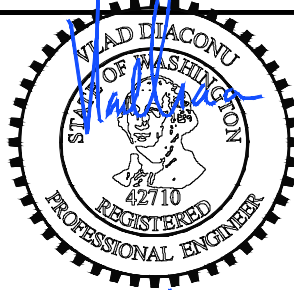


DIG ALERT



Know what's below.  
CALL before you dig.

CALL AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

T-Mobile®

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

Technology Associates

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

Technology Associates

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

SHEET TITLE

TITLE  
SHEET

SHEET NUMBER

T-1



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES

1. THIS FACILITY IS EXEMPT FROM HANDICAP REQUIREMENTS PER 2012 INTERNATIONAL BUILDING CODE SECTION 1103.2.9. THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL. THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
3. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS, SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT.
4. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
5. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO PROPOSED OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
6. A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT/HIRED DRAWINGS TO THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE.
8. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
9. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST I.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE THE MOST RESTRICTIVE CODE SHALL GOVERN.
10. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
11. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT.
12. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT. BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT. CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
14. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE. DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
15. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWINGS.
16. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
17. PROPOSED CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
18. THE CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT. OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA. (2012 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)
19. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
20. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
21. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE LEFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
22. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY.
23. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.
24. SITE CONTRACTOR TO CALL DIG ALERT (1-800-227-2600) TO LOCATE ANY AND ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.
25. ALL FACILITIES TO BE INSTALLED ARE UNMANNED. NO (E) PARKING SPACES WILL BE USED OR REMOVED BY THIS PROJECT.
26. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL INCORPORATE ANY CONSTRUCTION BEST MANAGEMENT PRACTICES NECESSARY TO COMPLY WITH THE CITY'S MUNICIPAL CODES INTO THE CONSTRUCTION PLANS OR SPECIFICATIONS.
27. PRIOR TO THE ISSUANCE OF ANY CONSTRUCTION PERMITS, THE APPLICANT SHALL SUBMIT A WATER POLLUTION CONTROL PLAN (WPCP). THE WPCP SHALL BE PREPARED IN ACCORDANCE WITH THE GUIDLINES IN APPENDIX E OF THE CITY'S STORM WATER STANDARDS.
28. THIS PROJECT PROPOSES NO DEVELOPEMENT IMPROVEMENTS OUTSIDE THE EXISTING BUILDING FOOTPRINT FOR THIS DISCRETIONARY REVIEW AND THEREFORE DOES NOT REQUIRE ANY PERMANENT STORM WATER BEST MANAGEMENT PRACTICES.
29. THIS IS ROOFTOP INSTALLATION ON AN EXISTING FACILITY AND NO GROUND DISTURBANCE OR TRENCHING IS PROPOSED BY THIS PROJECT.
30. THIS PROJECT PROPOSES NO WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

STORM WATER QUALITY NOTES CONSTRUCTION BMPS:

THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE PERMIT.

NOTES 1-6 BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S.

1. SUFFICIENT BMPS MUST BE INSTALLED TO PREVENT SILT, MUD OR OTHER CONSTRUCTION DEBRIS FROM BEING TRACKED INTO THE ADJACENT STREET(S) OR STORM WATER CONVEYANCE SYSTEMS DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY SUCH DEBRIS THAT MAY BE IN THE STREET AT THE END OF EACH WORK DAY OR AFTER A STORM EVENT THAT CAUSES A BREACH IN THE INSTALLED CONSTRUCTION BMPS.
2. ALL STOCK PILES OF UNCOMPACTED SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT UNPROTECTED FOR A PERIOD GREATER THAN SEVEN CALENDER DAYS ARE TO BE PROVIDED WITH EROSION AND SEDIMENT CONTROLS, SUCH SOIL MUST BE PROTECTED EACH DAY WHEN THE PROBABILITY OF RAIN IS 40% OR GREATER.
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE POURED IN PLACE ON THE SITE.
4. ALL EROSION/SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN WORKING ORDER AT ALL TIMES.
5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.

GENERAL FIRE NOTES:

1. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION SHALL BE IN ACCORDANCE WITH 2012 INTERNATIONAL BUILDING CODE AND ALL GOVERNING CODES.
2. ADDRESS SHALL BE PROVIDED FOR ALL PROPOSED AND EXISTING BUILDINGS IN A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. (2012 INTERNATIONAL BUILDING CODE 501.2)
3. DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION. (2012 INTERNATIONAL BUILDING CODE 806.1)
4. PORTABLE FIRE EXTINGUISHERS: AT LEAST ONE FIRE EXTINGUISHER WITH A MINIMUM RATING OF 2-A-10B:C SHALL BE PROVIDED WITHIN 75 FEET MAXIMUM TRAVEL DISTANCE FOR EACH 6,000 SQUARE FEET OR PORTION THEREOF ON EACH FLOOR. (2012 INTERNATIONAL BUILDING CODE 906.1.1 AND SECTION 906.3.1)

ABBREVIATION

DEFINITION

A.B.  
ABV.  
ACCA  
ADDL  
A.F.F.  
A.F.G.  
ALUM.  
ALT.  
ANT.  
APPRX.  
ARCH.  
AWG.  
BLDG.  
BLK.  
BLKG.  
BM.  
B.N.  
BTCW.  
B.O.F.  
BU  
CAB.  
CANT.  
C.I.P.  
CLG.  
CLR.  
COL.  
CONC.  
CONN.  
CONST.  
CONT.  
D  
DBL.  
DEPT.  
D.F.  
DIA.  
DIAG.  
DIM.  
DWG.  
DWL.  
EA.  
EL.  
ELEC.  
ELEV.  
EMT.  
E.N.  
ENG.  
EQ.  
EXP.  
EXST.(E)  
EXT.

ANCHOR BOLT  
ABOVE  
ANTENNA CABLE COVER ASSEMBLY  
ADDITIONAL  
ABOVE FINISHED FLOOR  
ABOVE FINISHED GRADE  
ALUMINUM  
ALTERNATE  
ANTENNA  
APPROXIMATE(LY)  
ARCHITECT(URAL)  
AMERICAN WIRE GAUGE  
BUILDING  
BLOCK  
BLOCKING  
BEAM  
BOUNDARY NAILING  
BARE TINNED COPPER WIRE  
BOTTOM OF FOOTING  
BACK-UP CABINET  
CABINET  
CANTILEVER(ED)  
CAST IN PLACE  
CEILING  
CLEAR  
COLUMN  
CONCRETE  
CONNECTION(OR)  
CONSTRUCTION  
CONTINUOUS  
PENNY (NAILS)  
DOUBLE  
DEPARTMENT  
DOUGLAS FIR  
DIAMETER  
DIAGONAL  
DIMENSION  
DRAWING(S)  
DOWEL(S)  
EACH  
ELEVATION  
ELECTRICAL  
ELEVATOR  
ELECTRICAL METALLIC TUBING  
EDGE NAIL  
ENGINEER  
EQUAL  
EXPANSION  
EXISTING  
EXTERIOR

ABBREVIATION

DEFINITION

FAB.  
F.F.  
F.G.  
FIN.  
FLR.  
FDN.  
F.O.C.  
F.O.M.  
F.O.S.  
F.O.W.  
F.S.  
FT.(')  
FTG.  
G.  
GA.  
GI.  
G.F.I.  
GLB.(GLU-LAM)  
GPS  
GRND.  
HDR.  
HGR.  
HT.  
ICGB.  
IN.(')  
INT.  
LB.(#)  
L.B.  
L.F.  
L.  
MAS.  
MAX.  
M.B.  
MECH.  
MFR.  
MIN.  
MISC.  
MTL.  
(N)  
NO.(#)  
N.T.S.  
O.C.  
OPNG.  
P/C  
PCS  
PLY.  
PPC  
PRC  
P.S.F.  
P.S.I.  
P.T.

FABRICATION(OR)  
FINISH FLOOR  
FINISH GRADE  
FINISH(ED)  
FLOOR  
FOUNDATION  
FACE OF CONCRETE  
FACE OF MASONRY  
FACE OF STUD  
FACE OF WALL  
FINISH SURFACE  
FOOT(FEET)  
FOOTING  
GROWTH (CABINET)  
GAUGE  
GALVANIZE(D)  
GROUND FAULT CIRCUIT INTERRUPTER  
GLUE LAMINATED BEAM  
GLOBAL POSITIONING SYSTEM  
GROUND  
HEADER  
HANGER  
HEIGHT  
ISOLATED COPPER GROUND BUS  
INCH(ES)  
INTERIOR  
POUND(S)  
LAG BOLTS  
LINEAR FEET (FOOT)  
LONG(ITUDINAL)  
MASONRY  
MAXIMUM  
MACHINE BOLT  
MANUFACTURER  
MINIMUM  
MISCELLANEOUS  
METAL  
NEW  
NUMBER  
NOT TO SCALE  
ON CENTER  
OPENING  
PRECAST CONCRETE  
PERSONAL COMMUNICATION SERVICES  
PLYWOOD  
POWER PROTECTION CABINET  
PRIMARY RADIO CABINET  
POUNDS PER SQUARE FOOT  
POUNDS PER SQUARE INCH  
PRESSURE TREATED


















































ABBREVIATION

DEFINITION

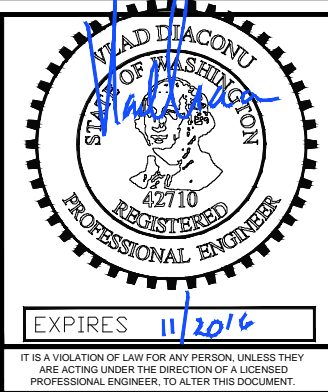
PWR.  
QTY.  
RAD.(R)  
REF.  
REINF.  
REQ'D.  
RGS.  
RRU.  
SCH.  
SHT.  
SIM.  
SPEC.  
SQ.  
S.S.  
STD.  
STL.  
STRUC.  
TEMP.  
THK.  
TMA  
T.N.  
T.O.A.  
T.O.C.  
T.O.F.  
T.O.P.  
T.O.S.  
T.O.W.  
TYP.  
U.G.  
U.L.  
U.N.O.  
V.I.F.  
W  
W/  
WD.  
W.P.  
WT.  
C  
E

POWER (CABINET)  
QUANTITY  
RADIUS  
REFERENCE  
REINFORCEMENT(INNG)  
REQUIRED  
RIGID GALVANIZED STEEL  
RADIO REMOTE UNIT  
SCHEDULE  
SHEET  
SIMILAR  
SPECIFICATION(S)  
SQUARE  
STAINLESS STEEL  
STANDARD  
STEEL  
STRUCTURAL  
TEMPORARY  
THICK(NESS)  
TOWER MOUNTED AMPLIFIER  
TOE NAIL  
TOP OF ANTENNA  
TOP OF CURB  
TOP OF FOUNDATION  
TOP OF PLATE (PARAPET)  
TOP OF STEEL  
TOP OF WALL  
TYPICAL  
UNDER GROUND  
UNDERWRITERS LABORATORY  
UNLESS NOTED OTHERWISE  
VERIFY IN FIELD  
WIDE(WIDTH)  
WITH  
WOOD  
WEATHERPROOF  
WEIGHT  
CENTERLINE  
PLATE

ABBREVIATIONS

	NEW ANTENNA		GRID REFERENCE
	EXISTING ANTENNA		DETAIL REFERENCE
	GROUND ROD		ELEVATION REFERENCE
	GROUND BUS BAR		SECTION REFERENCE
	MECHANICAL GRND. CONN.		GROUT OR PLASTER
	CADWELD		(E) BRICK
	GROUND ACCESS WELL		(E) MASONRY
	ELECTRIC BOX		CONCRETE
	TELEPHONE BOX		EARTH
	LIGHT POLE		GRAVEL
	FND. MONUMENT		PLYWOOD
	SPOT ELEVATION		SAND
	SET POINT		WOOD CONT.
	REVISION		WOOD BLOCKING
	CENTERLINE		STEEL
	PROPERTY/LEASE LINE		OVERHEAD SERVICE CONDUCTORS
	MATCH LINE		COAXIAL CABLE
	WORK POINT		FIBER
	GROUND CONDUCTOR		POWER AND FIBER
	TELEPHONE CONDUIT		CHAIN LINK FENCING
	ELECTRICAL CONDUIT (POWER)		WOOD FENCE
			OVERHEAD POWER LINE
			BURIED POWER LINE
			OVERHEAD TELEPHONE LINE
			BURIED TELEPHONE LINE
			BURIED WATER LINE
			BURIED SANITARY SEWER
			BURIED STORM DRAIN

1



REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005

ROOFTOP



SHEET TITLE

NOTES & LEGEND

SHEET NUMBER

T-2

GENERAL NOTES

4

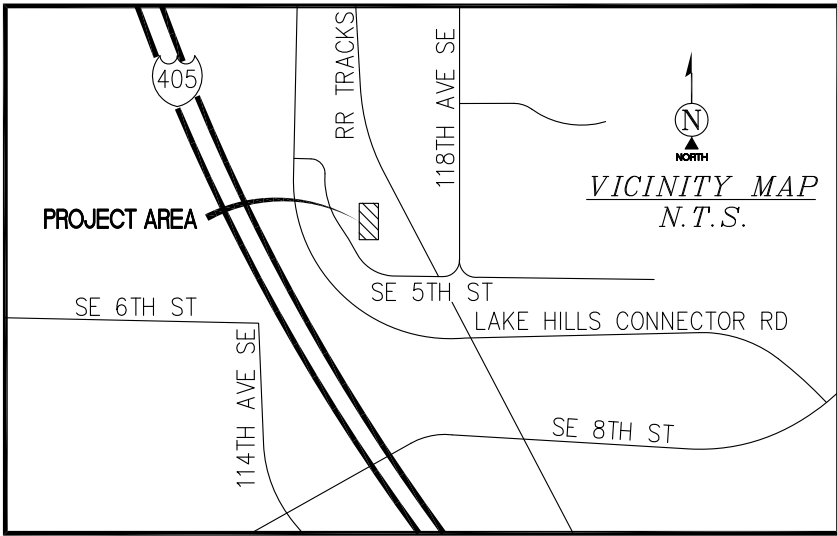
LEGEND

3

NOT USED

2





**UTILITY NOTES**  
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

**FLOOD\_ZONE**  
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD\_ZONE "X". AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #53033C0656F, DATED 05/16/1995

**SURVEYOR'S NOTES**  
SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED.

THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

**BENCHMARK**  
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS "GEOD 12A" MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY REAL TIME KINETIC (RTK) GPS DATA PROCESSED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN). ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NAVD88 DATUM.

**BASIS OF BEARING**  
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM WASHINGTON STATE PLANE COORDINATE\_ZONE NORTH, DETERMINED BY GPS OBSERVATIONS.

**LESSOR'S LEGAL DESCRIPTION**  
THAT PORTION OF LOTS 2, 3, 4, 5, 6, AND 7, BLOCK 1, WILBURTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 11 OF PLATS, PAGE 97, IN KING COUNTY, WASHINGTON, LYING EASTERLY OF COUNTY ROAD # 837, ALSO KNOWN AS ZECK ROAD,

EXCEPT THAT PORTION THEREOF CONDEMNED UNDER UNITED STATES DISTRICT COURT CAUSE NO. 4795 FOR PRIMARY STATE HIGHWAY NO. 1,

TOGETHER WITH THAT PORTION OF THE ALLEY VACATED UNDER CITY OF BELLEVUE ORDINANCE NO. 4317, RECORDED UNDER RECORDING NUMBER 9304261193, ADJOINING SAID PREMISES ON THE SOUTH, WHICH ATTACHES BY OPERATION OF LAW,

TOGETHER WITH LOTS 7, 8, 9, AND THE WEST 20 FEET OF LOT 10, ALL IN BLOCK 2, WILBURTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 11 OF PLATS, PAGE 97, IN KING COUNTY, WASHINGTON,

TOGETHER WITH THAT PORTION OF THE ALLEY VACATED UNDER CITY OF BELLEVUE ORDINANCE NO. 4317, RECORDED UNDER RECORDING NUMBER 9304261193, ADJOINING SAID PREMISES ON THE NORTH, WHICH ATTACHES BY OPERATION OF LAW,

EXCEPT THAT PORTION OF LOT 7 DESCRIBED AS FOLLOWS

BEGINNING AT THE SOUTHEAST CORNER OF SAID LOT 7, THENCE WEST A DISTANCE OF 40 FEET TO THE SOUTHWEST CORNER THEREOF, THENCE NORTH A DISTANCE OF 68.11 FEET ALONG THE WEST LINE THEREOF; THENCE SOUTH 30° 25' 30" EAST A DISTANCE OF 79 FEET TO THE POINT OF BEGINNING, ALSO

EXCEPT THAT PORTION OF SAID PREMISES CONVEYED TO THE CITY OF BELLEVUE BY STATUTORY WARRANTY DEED RECORDED UNDER RECORDING NUMBER 9411210868, SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS,

COMMENCING AT A POINT WHERE THE EAST LINE OF THE EAST 20.00 FEET OF LOT 10 OF SAID BLOCK 2 INTERSECTS THE NORTHERLY MARGIN OF SOUTHEAST 5TH STREET, THENCE NORTH 88° 51' 16" WEST, ALONG SAID NORTHERLY MARGIN, A DISTANCE OF 98.03 FEET TO AN ANGLE POINT IN THE MARGIN OF SAID SOUTHEAST 5TH STREET, AND THE TRUE POINT OF BEGINNING, THENCE NORTH 30° 59' 02" WEST, ALONG THE NORTHEASTERLY MARGIN OF SAID SOUTHEAST 5TH STREET, A DISTANCE OF 35.00 FEET, THENCE SOUTH 59° 55' 09" EAST A DISTANCE OF 61.26 FEET TO SAID NORTHERLY MARGIN OF SOUTHEAST 5TH STREET, THENCE NORTH 88° 51' 16" WEST, ALONG SAID NORTHERLY MARGIN, A DISTANCE OF 35.00 FEET TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH THAT PORTION OF LOT 6, BLOCK 2, WILBURTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 11 OF PLATS, PAGE 97, IN KING COUNTY, WASHINGTON, LYING NORTHEASTERLY OF COUNTY ROAD # 837, ALSO KNOWN AS ZECK ROAD;

TOGETHER WITH THAT PORTION OF THE ALLEY VACATED UNDER CITY OF BELLEVUE ORDINANCE NO. 4317, RECORDED UNDER RECORDING NUMBER 9304261193, ADJOINING SAID PREMISES ON THE NORTH, WHICH ATTACHES BY OPERATION OF LAW,

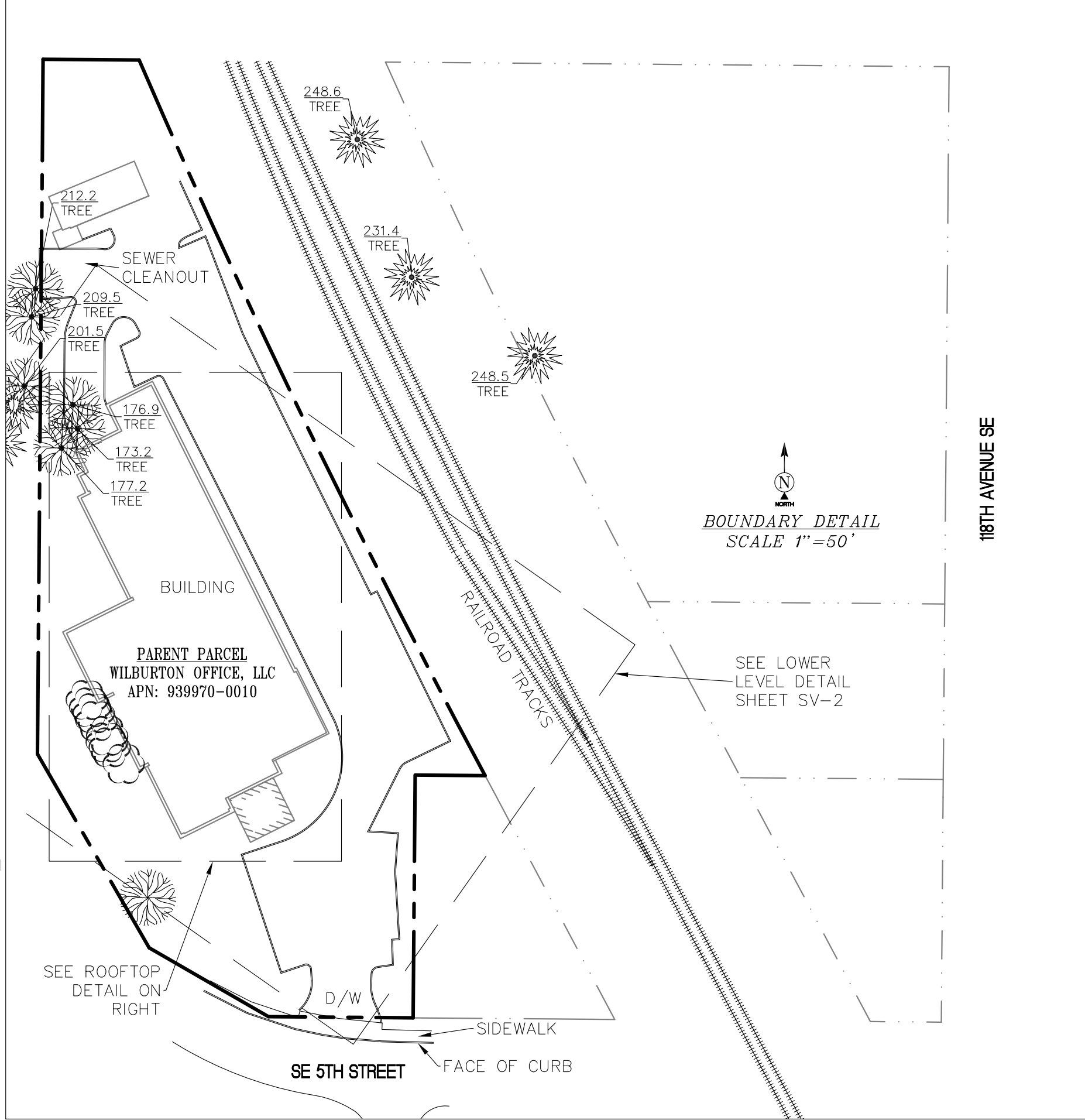
ALL THAT PORTION OF LOT 1, BLOCK 1, WILBURTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 11 OF PLATS, PAGE 97, IN KING COUNTY, WASHINGTON, LYING WEST OF THE RIGHT OF WAY OF NORTHERN PACIFIC RAILWAY AS SHOWN ON DEED, RECORDED JUNE 16, 1903, IN VOLUME 354 OF DEEDS, PAGE 11;

EXCEPT THAT PORTION THEREOF CONVEYED TO THE STATE OF WASHINGTON FOR PRIMARY STATE HIGHWAY NO. 1, BY DEED RECORDED UNDER RECORDING NUMBER 4921237, AND CONDEMNED IN UNITED STATES DISTRICT COURT NO. 4795,

TOGETHER WITH THAT PORTION OF VACATED SOUTHEAST 4TH STREET ADJOINING WHICH ATTACHES THERETO BY OPERATION OF LAW.

SAID LEGAL DESCRIPTION IS PURSUANT TO DECLARATION OF LOT COMBINATION RECORDED UNDER RECORDING NO. 20001116000397.

SURVEY DATE  
06/24/2016



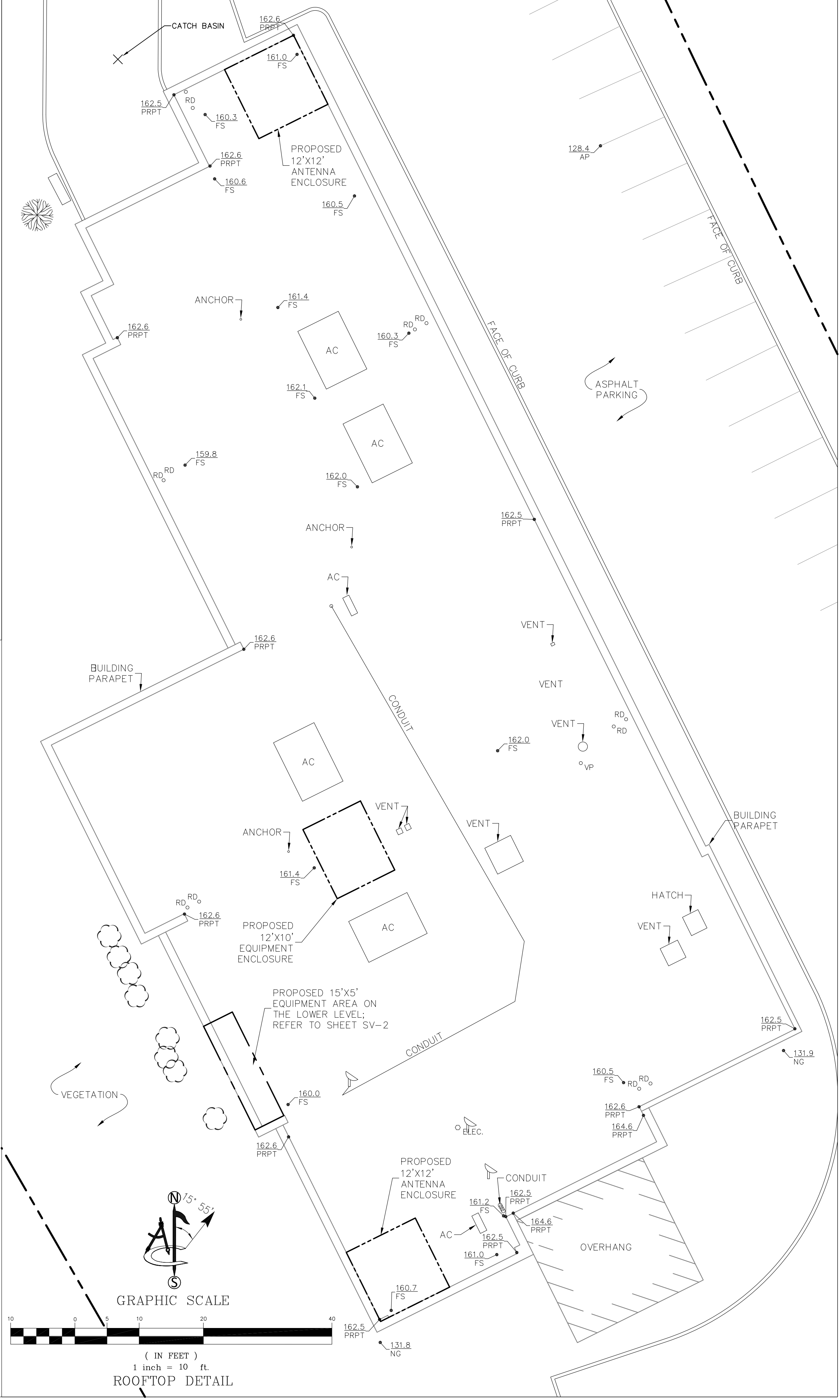
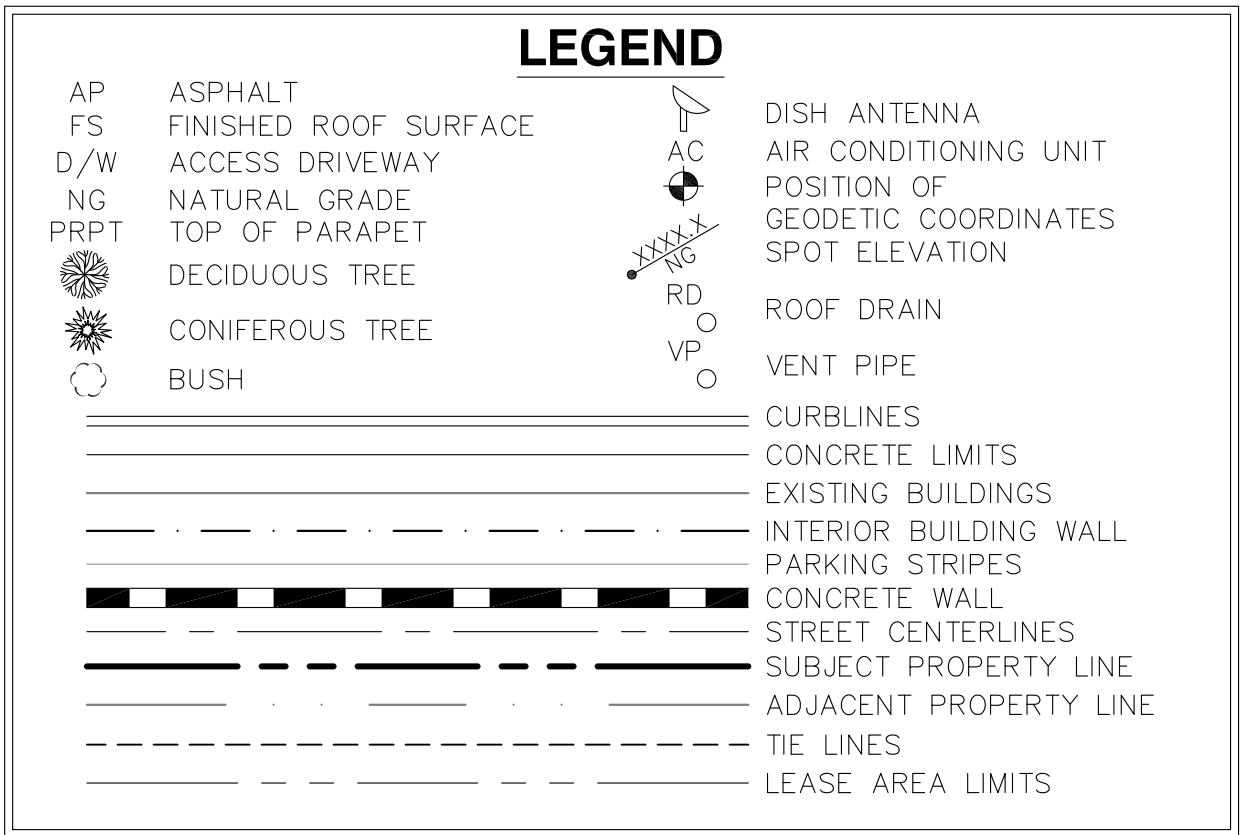
**RECORD MATTERS**  
REFERENCE IS MADE TO THE SUBDIVISION GUARANTEE ORDER NO. 2645765, ISSUED BY FIRST AMERICAN TITLE INSURANCE COMPANY, DATED APRIL 21, 2016. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED.

ITEMIZED NOTES:  
ITEMS 1 & 10 ARE NOT A SURVEY MATTER.

ITEMS 2 - 9, 11, & 13 - 22 DO NOT AFFECT THE PROJECT AREA.

12. DOCUMENT NOT PROVIDED.

THE SURVEYORS OPINION IS THAT NO RECORD MATTERS PROVIDED BY SAID SUBDIVISION GUARANTEE AFFECT THE PROPOSED WIRELESS FACILITY PREMISES SHOWN HEREON.



**T-Mobile**

19807 North Creek Parkway North  
Bothell, Washington 98011

PROJECT INFORMATION:

SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WASHINGTON 98005  
KING COUNTY

ORIGINAL ISSUE DATE:

07/04/2016

REV.: DATE: DESCRIPTION: BY:

0	07/04/16	PRELIMINARY	AC
1	10/21/16	LOWER LEVEL (C)	AC

PLANS PREPARED BY:

**Technology Associates**  
4122 FACTORIA BLVD SE, SUITE 303  
BELLEVUE, WA 98006

CONSULTANT:

**Ambit Consulting**  
245 SAINT HELENS AVENUE, SUITE 3A  
TACOMA, WASHINGTON 98402 (253)572-9181

DRAWN BY: CHK.: APV.:

AC	SR	SR
----	----	----

LICENSER:

PRELIMINARY

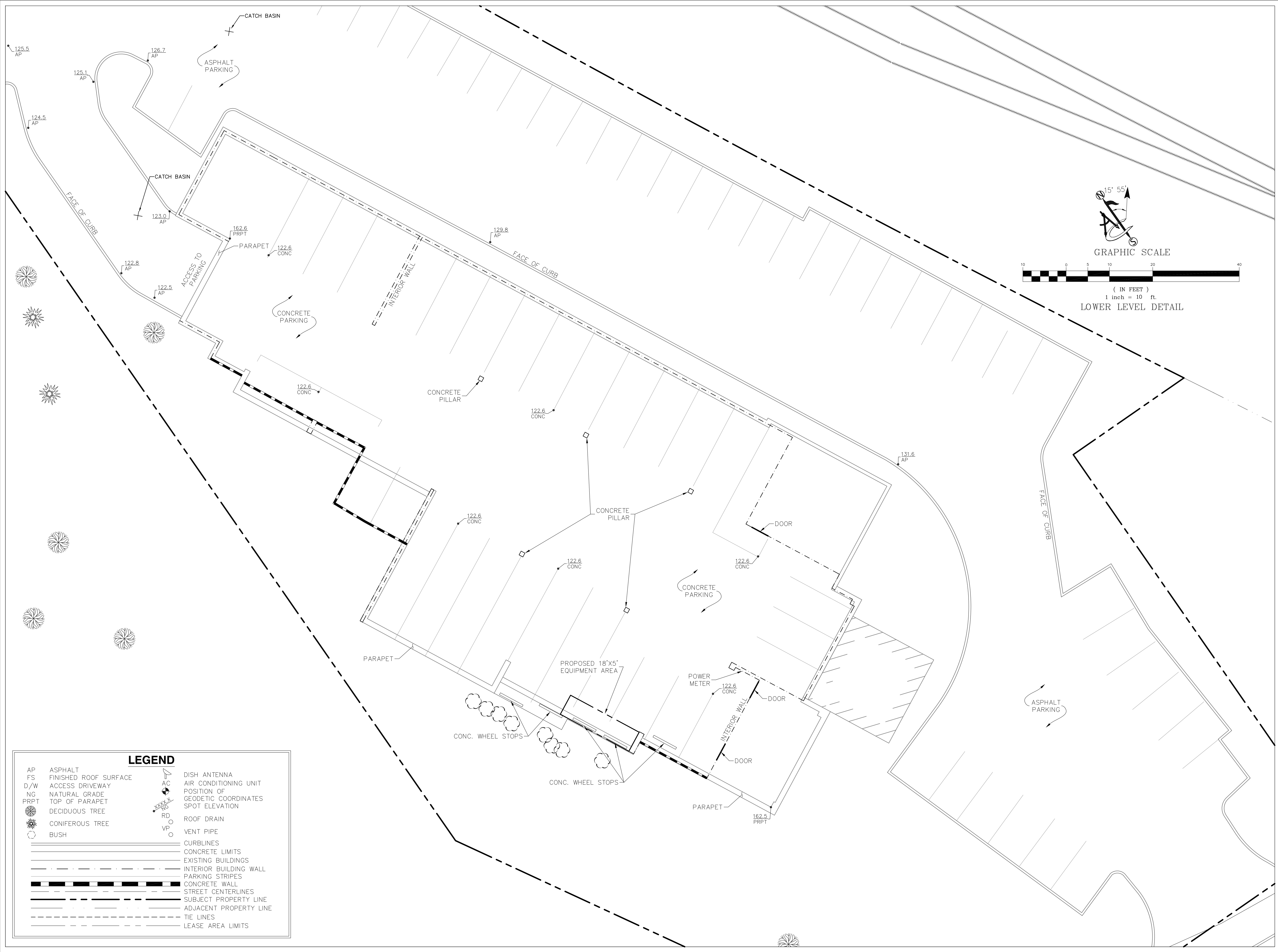
SHEET TITLE:

SITE SURVEY

SHEET NUMBER:

SV-1





LEGEND

AP

FS

D/W

NG

PRPT

ASPHALT

FINISHED ROOF SURFACE

ACCESS DRIVEWAY

NATURAL GRADE

TOP OF PARAPET

DECIDUOUS TREE

CONIFEROUS TREE

BUSH

DISH ANTENNA

AIR CONDITIONING UNIT

POSITION OF  
GEODETIC COORDINATES

SPOT ELEVATION

RD

VP

CURBLINES

CONCRETE LIMITS

EXISTING BUILDINGS

INTERIOR BUILDING WALL

PARKING STRIPES

CONCRETE WALL

STREET CENTERLINES

SUBJECT PROPERTY LINE

ADJACENT PROPERTY LINE

TIE LINES

LEASE AREA LIMITS

19807 North Creek Parkway North  
Bothell, Washington 98011

PROJECT INFORMATION:

SE03416B  
SURREY DOWN  
11624 SE 5TH STREET  
BELLEVUE, WASHINGTON 98005  
KING COUNTY

ORIGINAL ISSUE DATE:

07/04/2016

REV.:DATE:DESCRIPTION:BY:

0	07/04/16	PRELIMINARY	AC
1	10/21/16	LOWER LEVEL (C)	AC

PLANS PREPARED BY:

4122 FACTORIA BLVD SE, SUITE 303  
BELLEVUE, WA 98006

CONSULTANT:

245 SAINT HELENS AVENUE, SUITE 3A  
TACOMA, WASHINGTON 98402 (253)572-9181

DRAWN BY:CHK.:APV.:

AC	SR	SR
----	----	----

LICENSER:

PRELIMINARY

SHEET TITLE:

LOWER LEVEL DETAIL

SHEET NUMBER:

SV-2

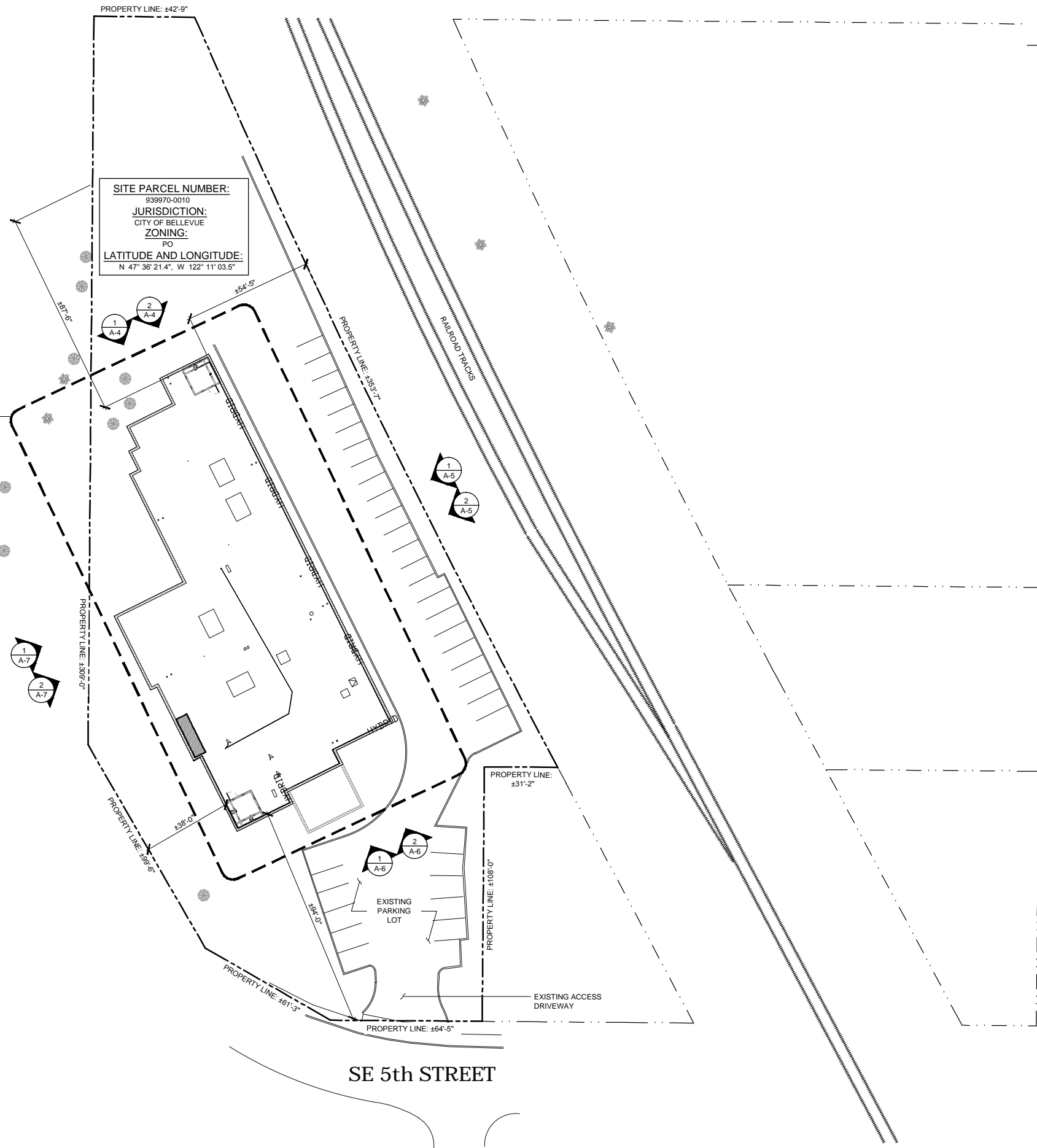


NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NEW EQUIPMENT & ANTENNA AREA,  
FOR ENLARGED SITE PLAN SEE:

1  
A-2

SITE PARCEL NUMBER:  
939970-0010  
JURISDICTION:  
CITY OF BELLEVUE  
ZONING:  
PO  
LATITUDE AND LONGITUDE:  
N 47° 36' 21.4", W 122° 11' 03.5"



LANDLORD SIGNATURE

118th AVENUE SE

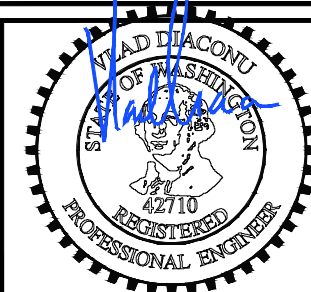
SE 5th STREET



SITE PLAN

25' 0 10' 25' SCALE: 1" = 25'-0" (24x36)  
(OR) 1/2" = 25'-0" (11x17)

1



EXPIRES 11/2016  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY  
ARE ACTING UNDER THE DIRECTION OF A LICENSED  
PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**  
19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**  
PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**  
ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

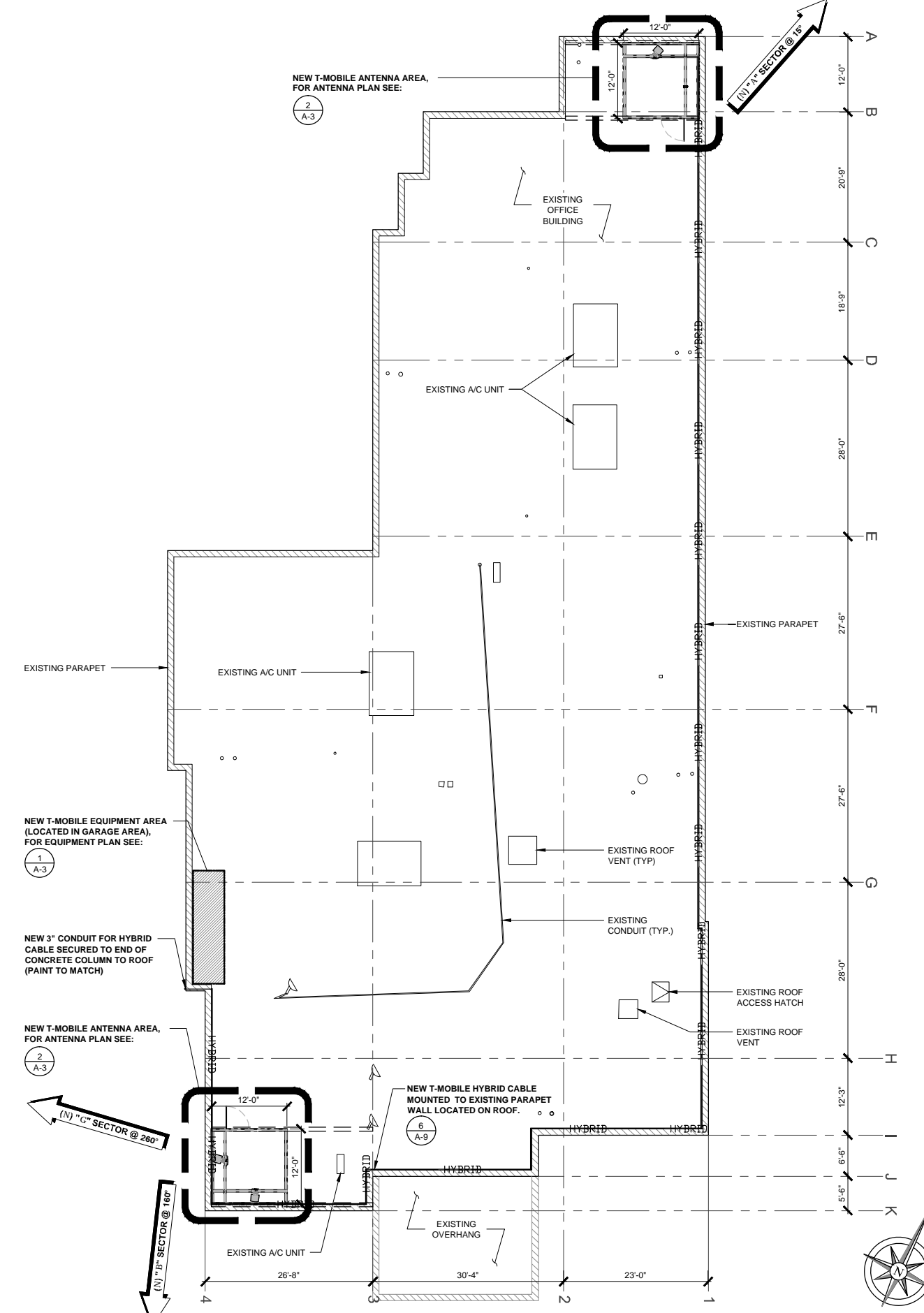
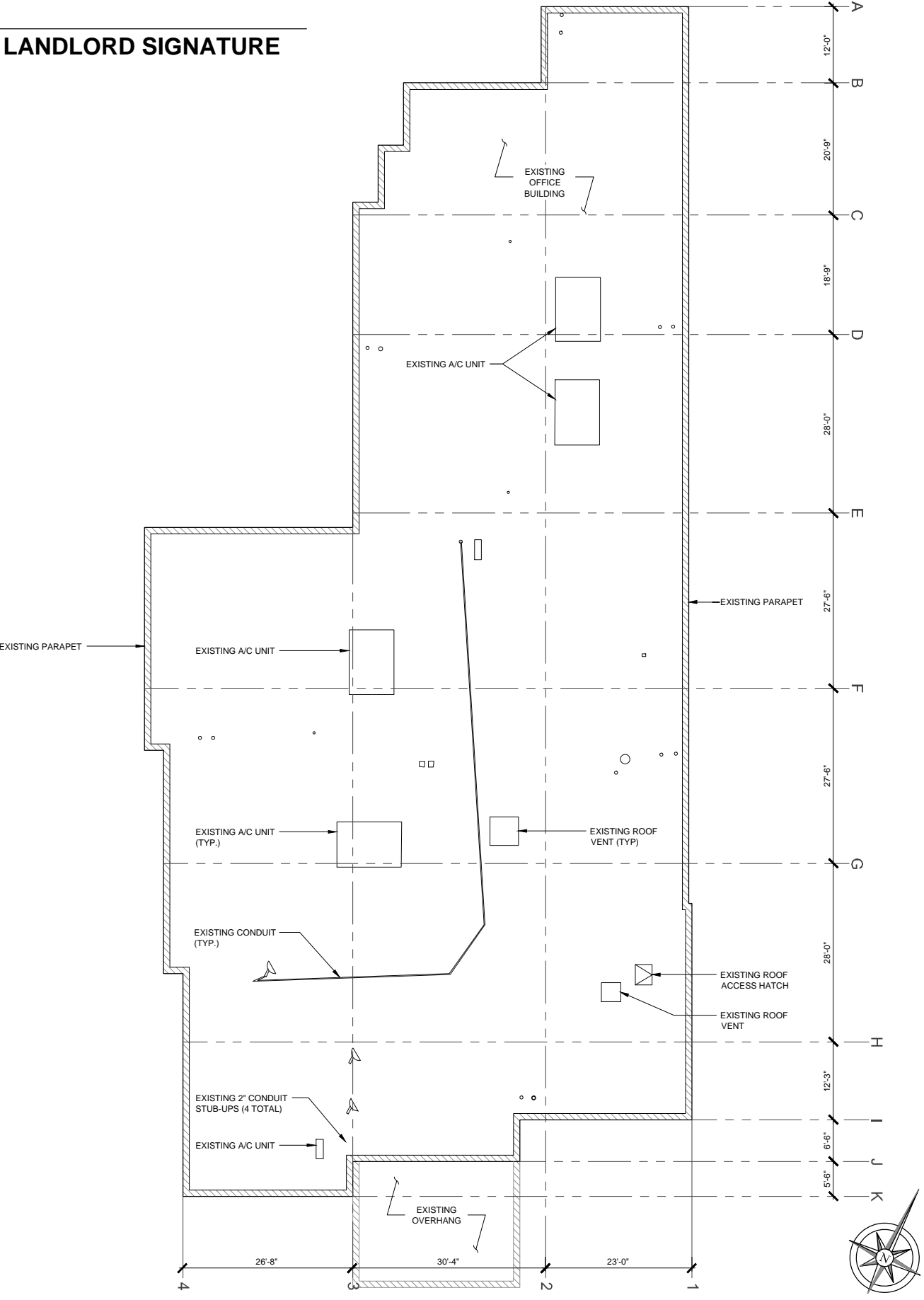
SHEET TITLE  
SITE PLAN

SHEET NUMBER

A-1



LANDLORD SIGNATURE



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

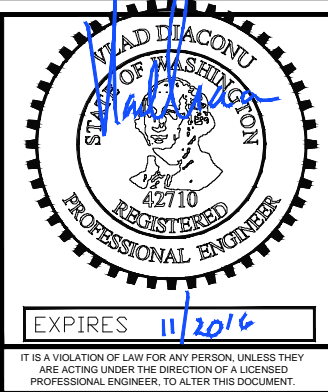
11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
ENLARGED  
SITE PLANS

SHEET NUMBER  
A-2

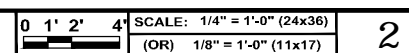
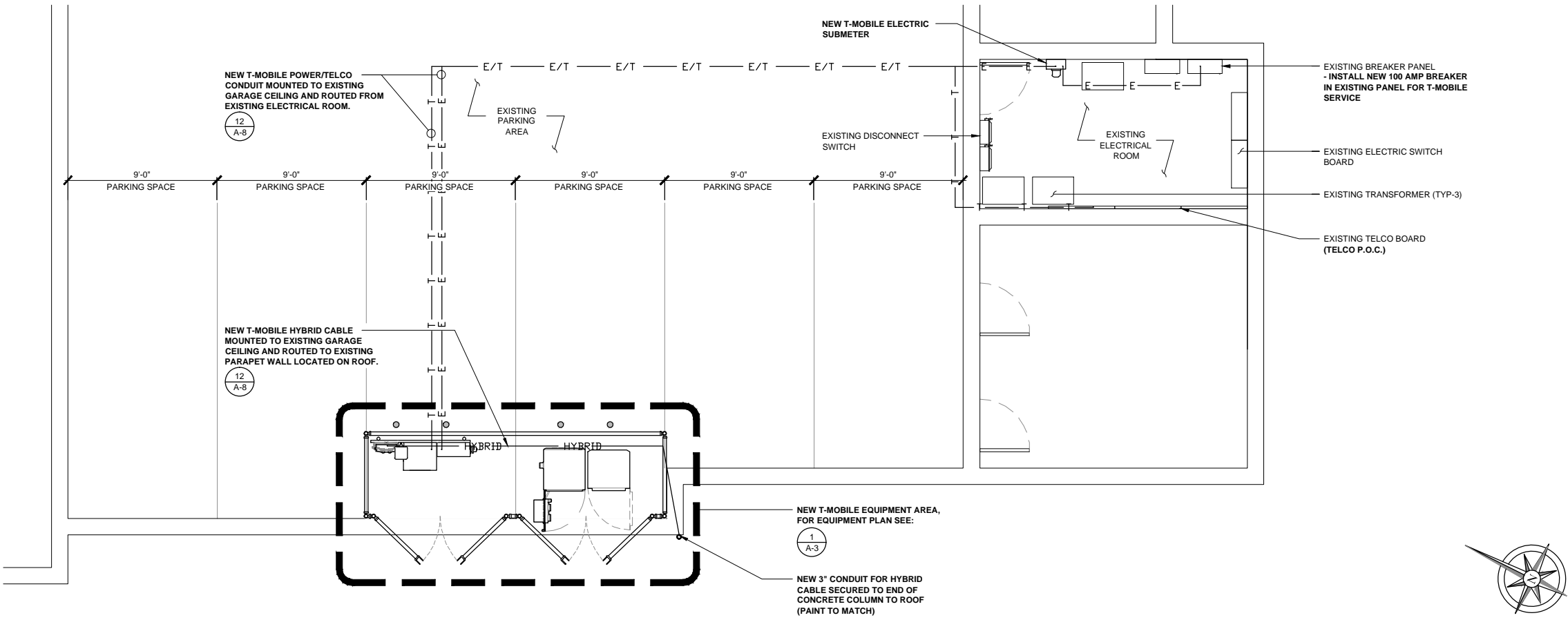


[illegible]

**Technology Associates**

**PNW MARKET OFFICE**  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**GARAGE AREA (EXISTING)**



JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

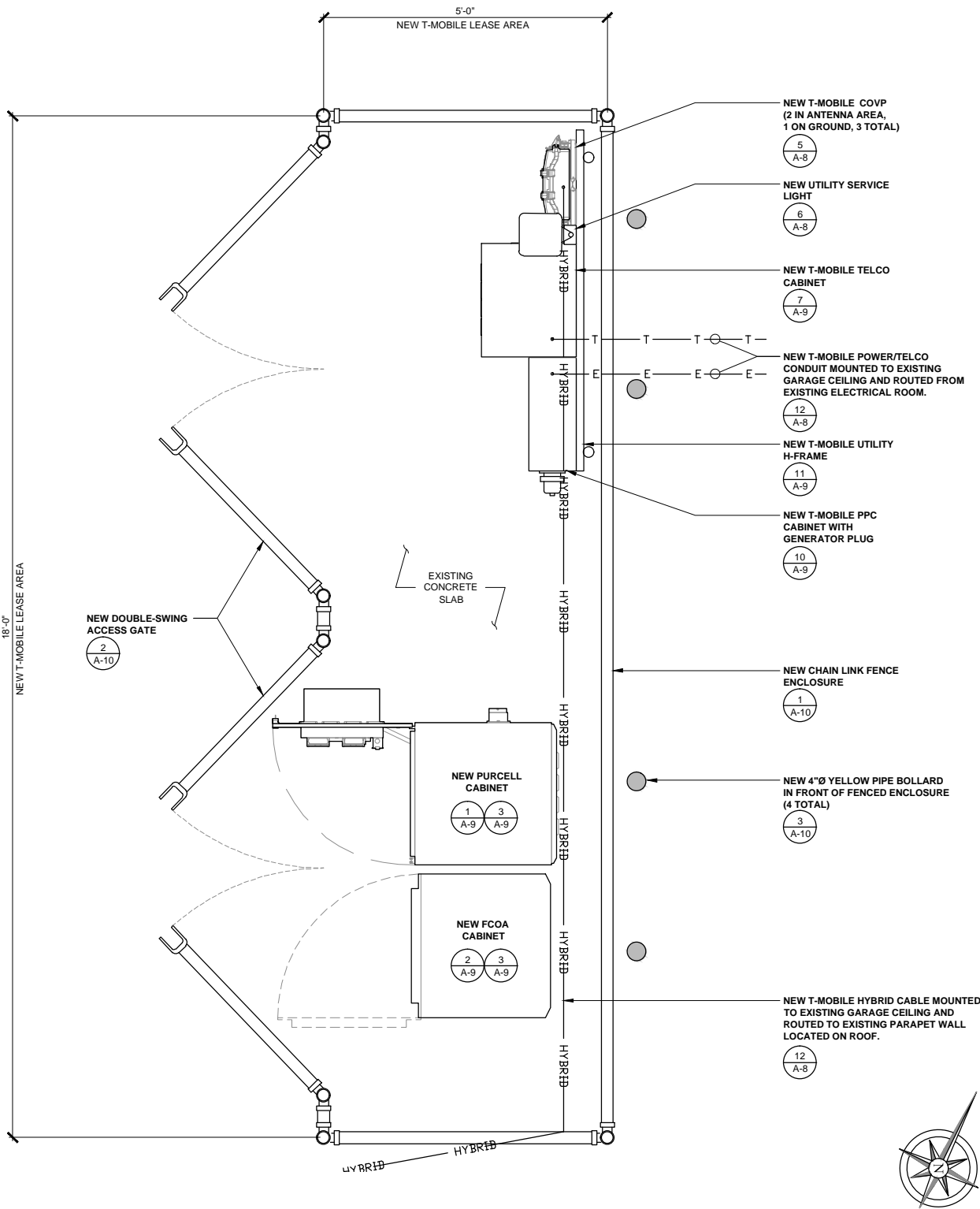
SHEET NUMBER

A-2.1

**NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES**



GROUND: FINAL EQUIPMENT INVENTORY								
SCOPE OF WORK	QUANTITY	TECHNOLOGY	MANUFACTURER	EQUIPMENT MODEL	DIMENSIONS (LxWxD)	WEIGHT (LBS)	CABINET TYPE (LOCATION OF EQUIPMENT)	CABINET QUANTITY
ADD NEW	(1)	COVP	RAYCAP	RNSNDC-7771-PF-48	20.22" x 18.86" x 7.0"	-	RACK	(1)
ADD NEW	(3)	BASEBAND	NOKIA	FBBC	-	-	FCOA	(1)
ADD NEW	(3)	BASEBAND	NOKIA	FSMF	5.2" x 11.76" x 16.6"	41.9	FCOA	(1)
NOTE: 1. REFER TO SHEETS S-4 & S-4.1 FOR STRUCTURAL DESIGN AND DETAILS PROVIDED BY ARSENE PROFESSIONAL ENGINEERS INC..								

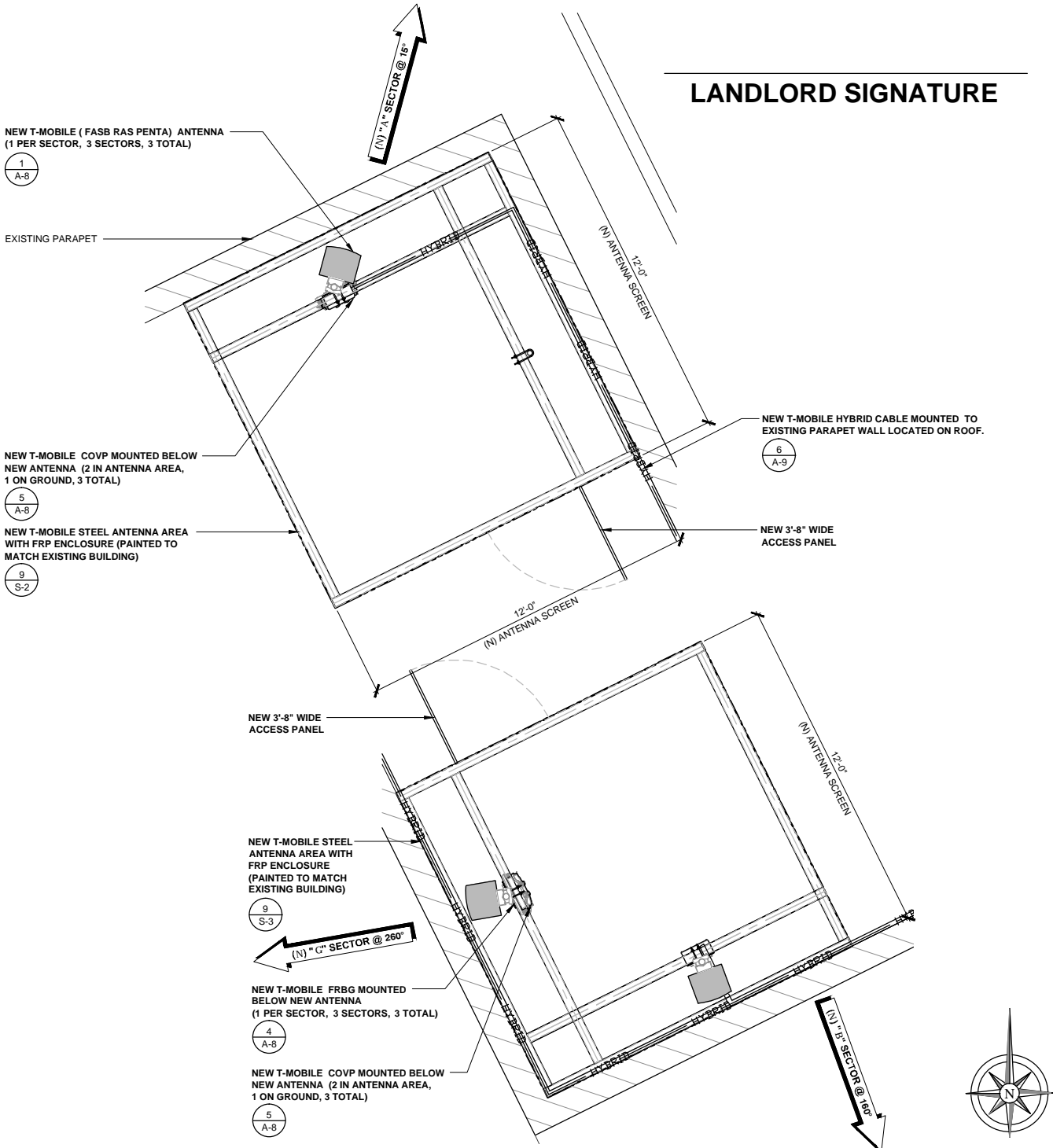


EQUIPMENT PLAN (FINAL)

0 3" 6" 1' SCALE: 3/4" = 1'-0" (24x36)  
(OR) 3/8" = 1'-0" (11x17)

1

TOWER: FINAL EQUIPMENT INVENTORY						
SCOPE OF WORK	QUANTITY	TECHNOLOGY	MANUFACTURER	MODEL	DIMENSIONS (LxWxD)	WEIGHT (LBS)
ADD NEW	(3)	ANTENNA	NOKIA	FASB	96.1" x 13.4" x 14.9"	108.0
ADD NEW	(1)	COVP	RAYCAP	RNSNDC-7771-PF-48	20.22" x 18.86" x 7.0"	-
ADD NEW	(3)	RRU	NOKIA	FHFB	23.0" x 12.6" x 7.8"	48.5
ADD NEW	(3)	RRU	NOKIA	FRIJ	23.0" x 12.6" x 7.8"	48.5
ADD NEW	(3)	RRU	NOKIA	FRBG	22.9" x 12.6" x 6.3"	57.0
NOTE: 1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN. 2. REFER TO FINAL CONFIGURATION ANTENNA SCHEDULE ON SHEET RF-1. 3. REFER TO SHEETS S-2, S-2.1, S-3, S-3.1 FOR STRUCTURAL DESIGN AND DETAILS PROVIDED BY ARSENE PROFESSIONAL ENGINEERS INC..						



ANTENNA PLAN (FINAL)

0 1' 2' 3' SCALE: 3/8" = 1'-0" (24x36)  
(OR) 3/16" = 1'-0" (11x17)

2



EXPIRES 11/2016  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**  
19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**  
PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**  
ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B  
**SURREY DOWN**  
11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

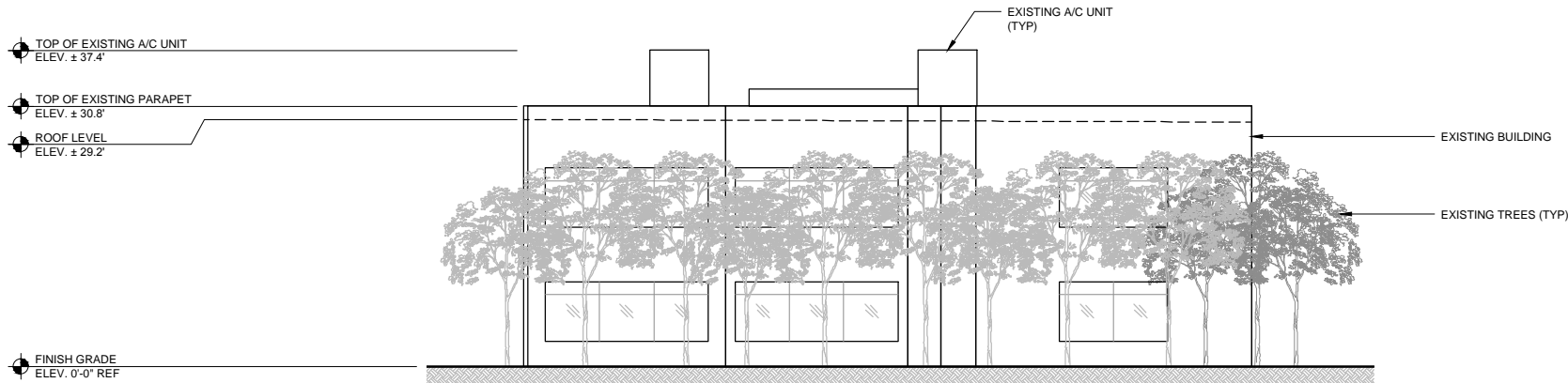
JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
**ANTENNA & EQUIPMENT PLAN**

SHEET NUMBER  
**A-3**



LANDLORD SIGNATURE



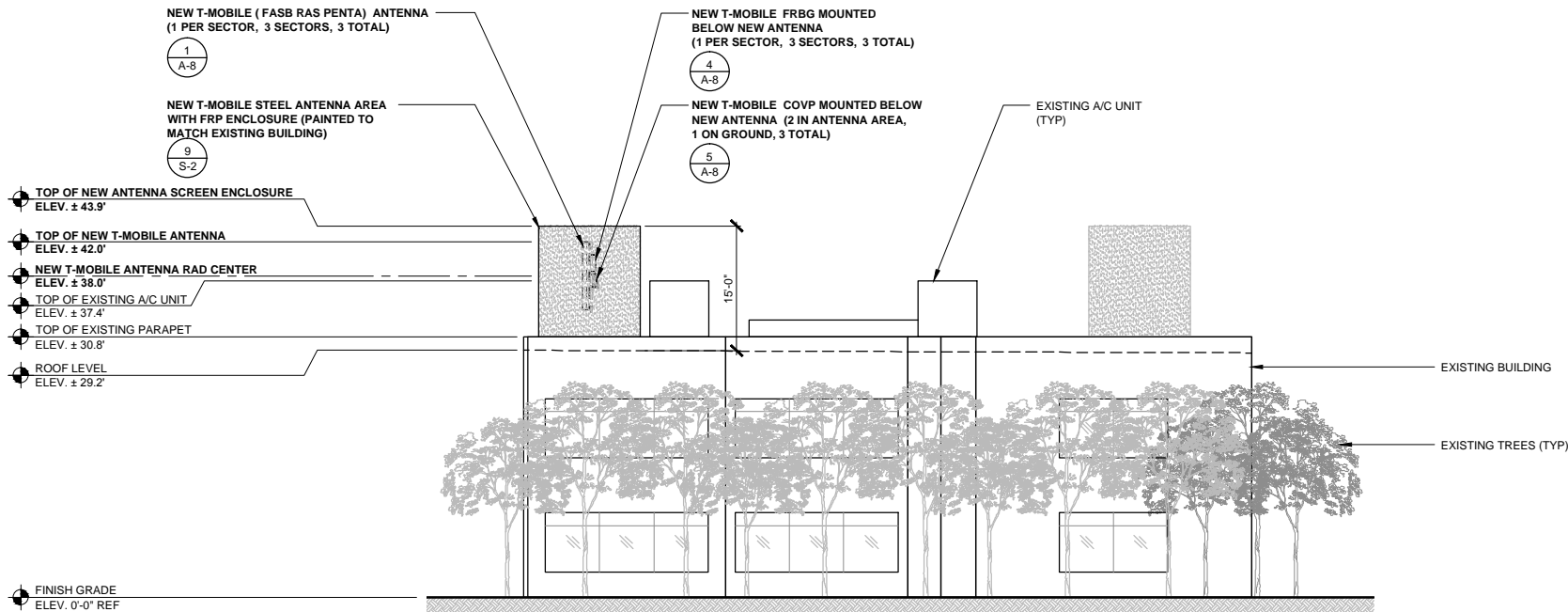
NORTHWEST ELEVATION (EXISTING)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

1

DISCLAIMER:

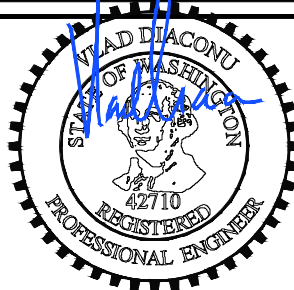
- EXISTING TOP HEIGHTS OF PARAPET, ROOF LEVEL, AND A/C UNITS ARE BASED ON 1A SURVEY DATED: 06/24/2016.
- REFER TO STRUCTURAL SHEETS PROVIDED BY ARSENE PROFESSIONAL ENGINEERS REGARDING NEW ANTENNA AND EQUIPMENT FRP AREA ENCLOSURE.
- NEW FRP SCREEN WALLS ARE TO BE PAINTED TO MATCH EXISTING BUILDING.



NORTHWEST ELEVATION (FINAL)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

2



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

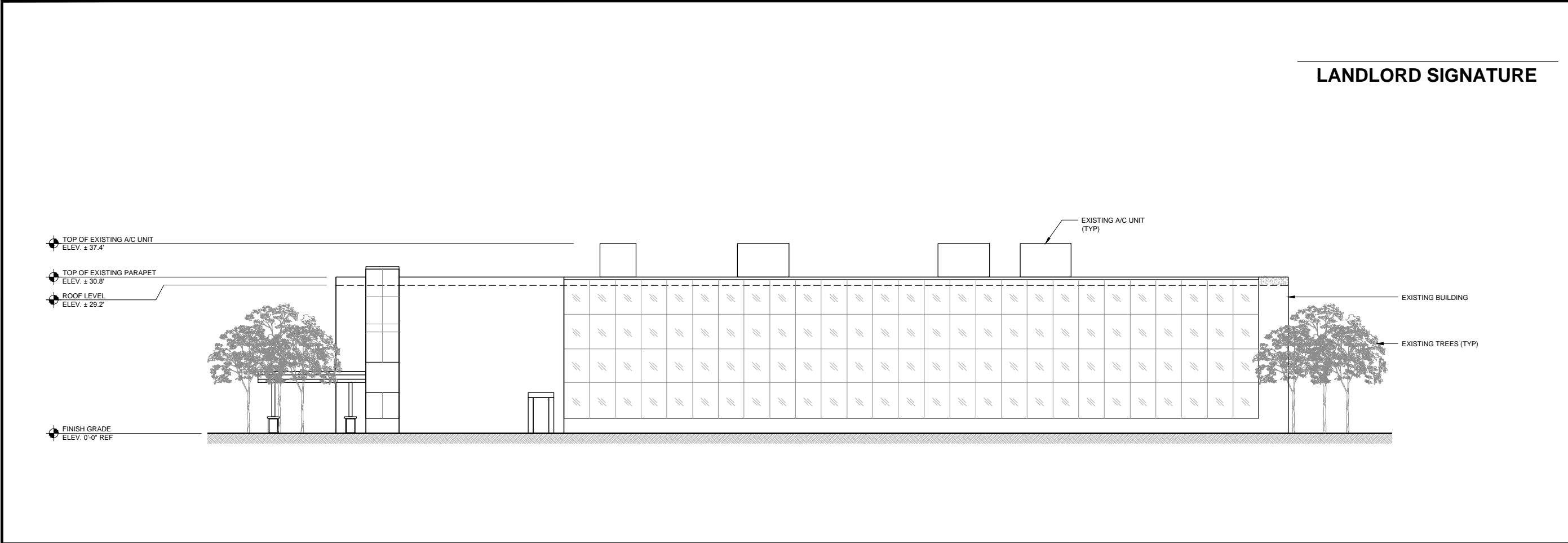
SHEET TITLE

ELEVATIONS

SHEET NUMBER

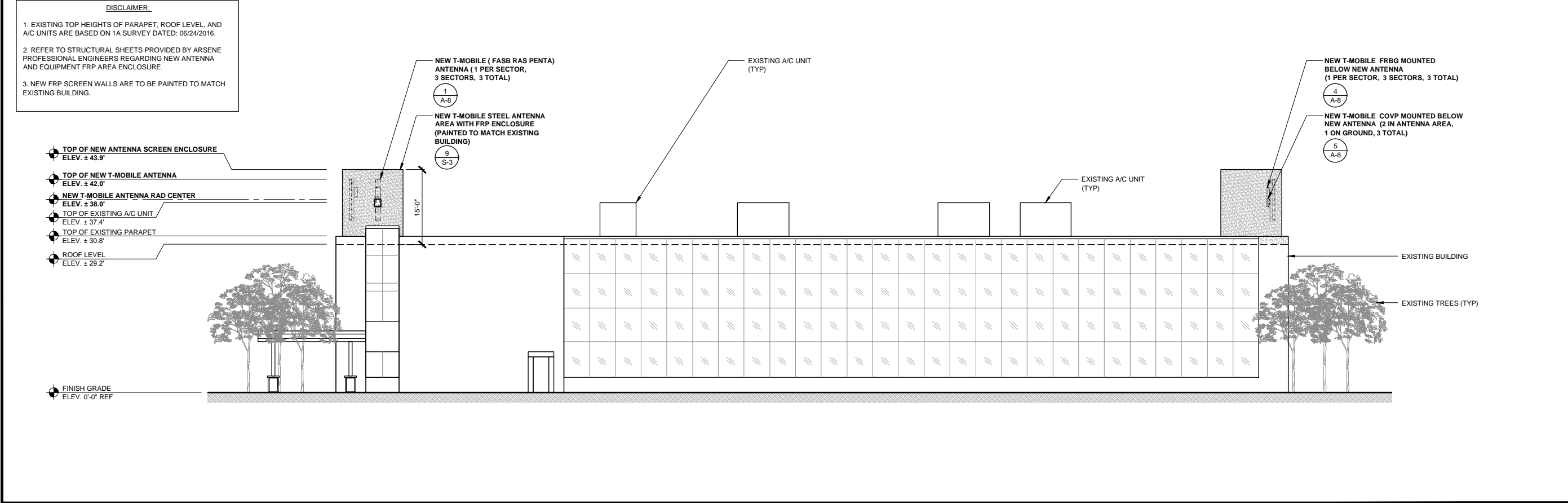
A-4





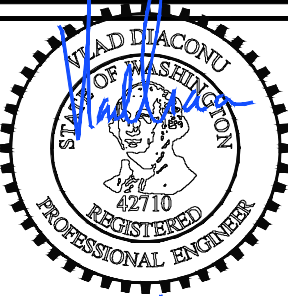
NORTHEAST ELEVATION (EXISTING)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17) 1



NORTHEAST ELEVATION (FINAL)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17) 2



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

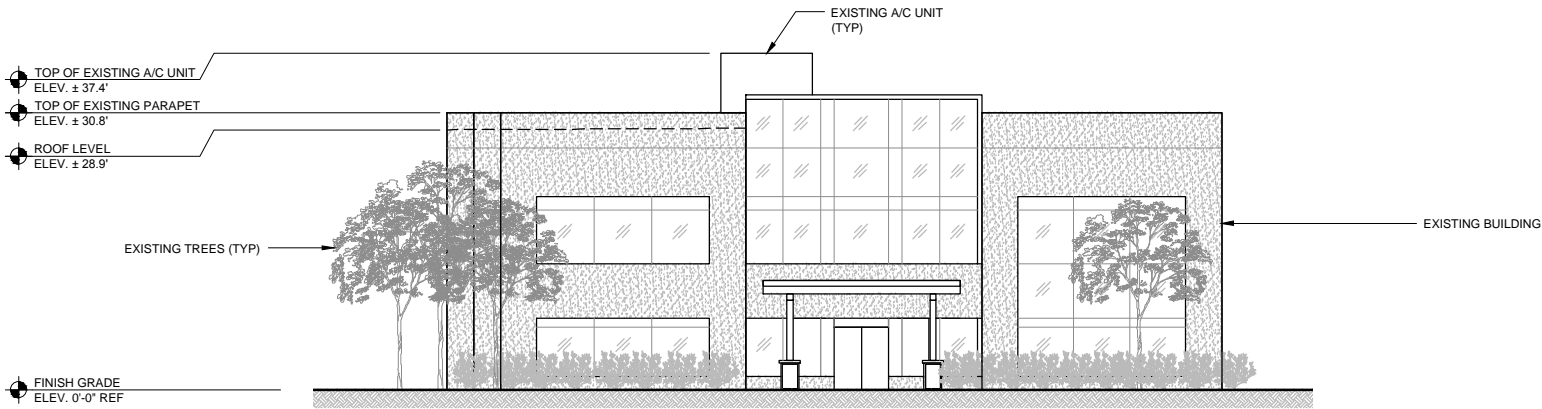
JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
ELEVATIONS

SHEET NUMBER  
A-5



LANDLORD SIGNATURE



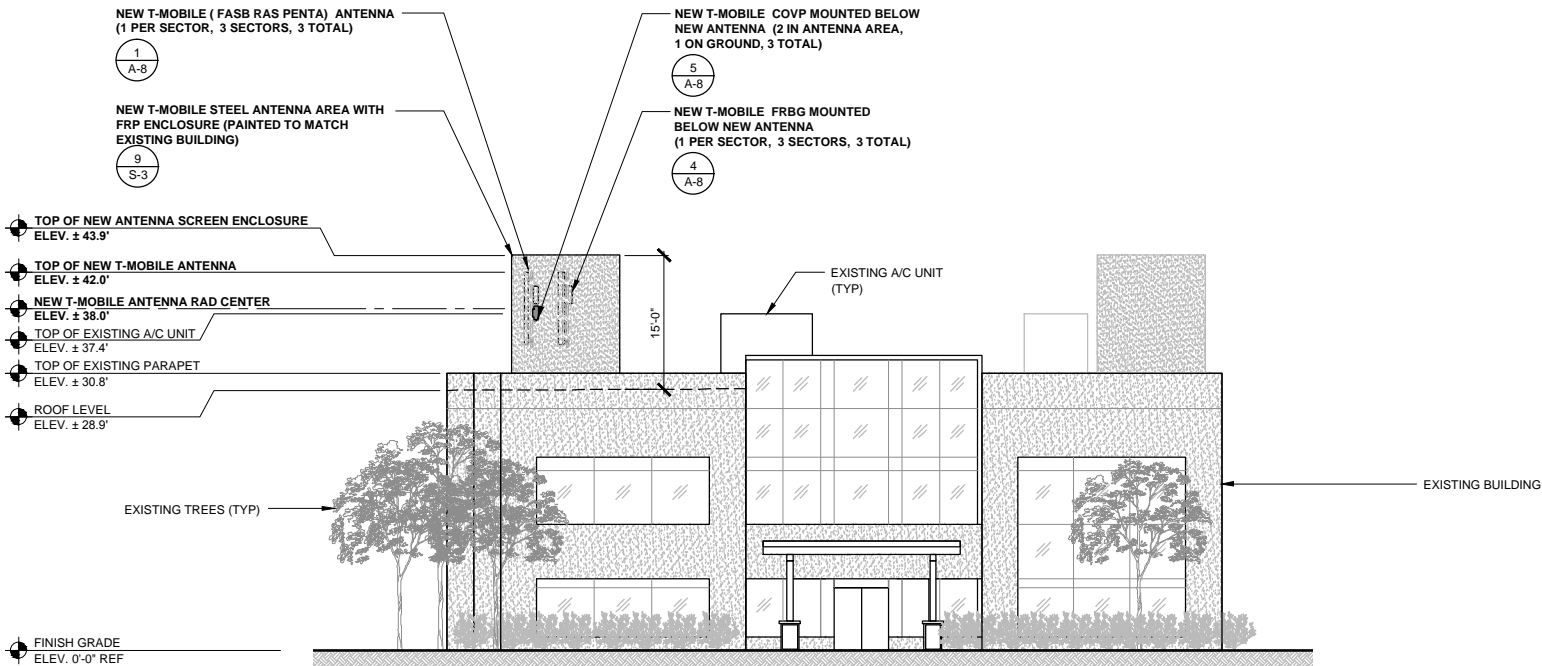
SOUTHEAST ELEVATION (EXISTING)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

1

DISCLAIMER:

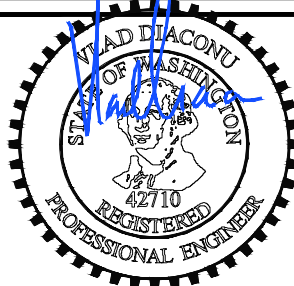
1. EXISTING TOP HEIGHTS OF PARAPET, ROOF LEVEL, AND A/C UNITS ARE BASED ON 1A SURVEY DATED: 06/24/2016.
2. REFER TO STRUCTURAL SHEETS PROVIDED BY ARSENE PROFESSIONAL ENGINEERS REGARDING NEW ANTENNA AND EQUIPMENT FRP AREA ENCLOSURE.
3. NEW FRP SCREEN WALLS ARE TO BE PAINTED TO MATCH EXISTING BUILDING.



SOUTHEAST ELEVATION (FINAL)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

2



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

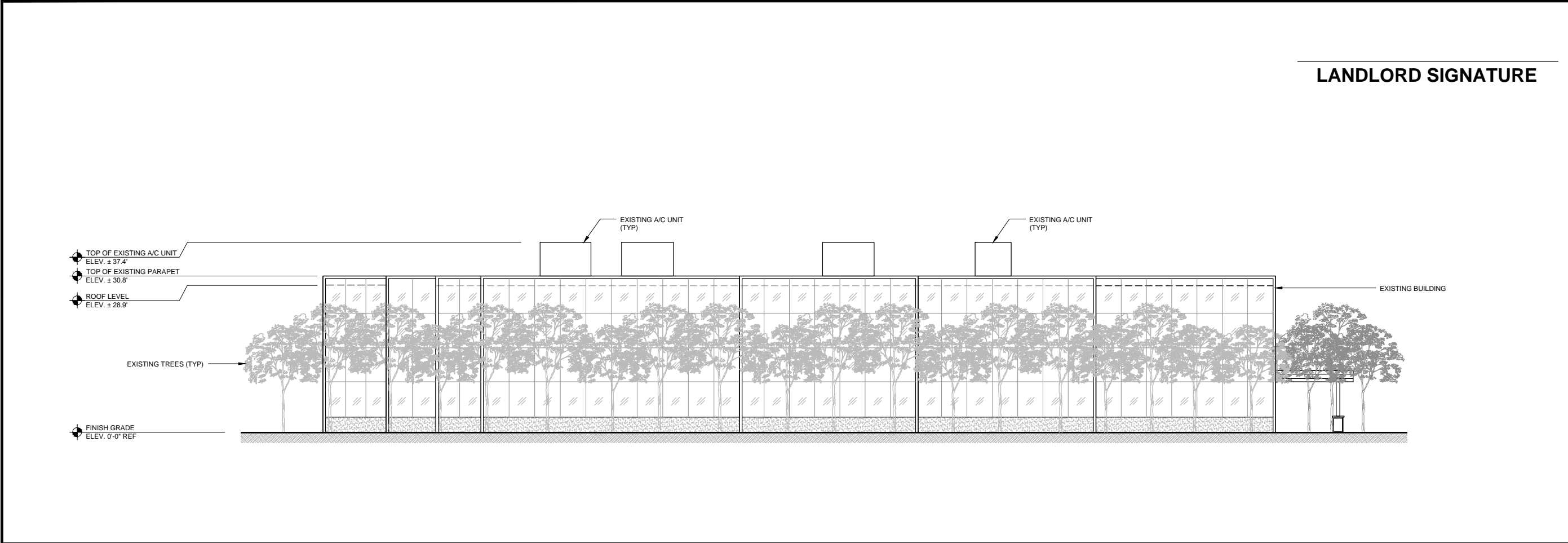
SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-6

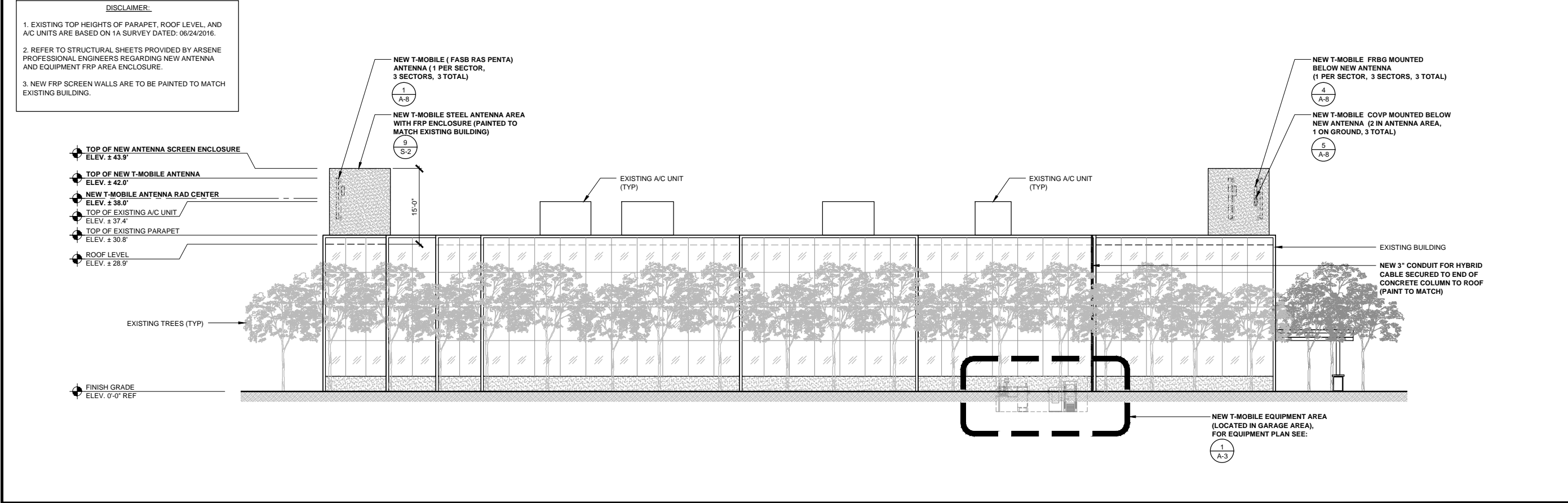




SOUTHWEST ELEVATION (EXISTING)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

1



SOUTHWEST ELEVATION (FINAL)

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

2

Professional Engineer Seal for David DiConu, State of Washington, Registered Professional Engineer, No. 42710. The seal is signed by David DiConu and expires on 11/20/16.

**T-Mobile**  
19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**  
PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**  
ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B  
**SURREY DOWN**  
11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
**ELEVATIONS**

SHEET NUMBER  
**A-7**



ARMORED TRUNK HYBRID CABLE - HIGH CAPACITY

NOTE:  
CABLE CROSS-SECTION NOT DRAWN TO SCALE

SINGLE MODE FIBER  
X 36

18 AWG COPPER  
CONDUCTOR X 2

CORRUGATED COPPER  
ARMOR

6 AWG COPPER  
CONDUCTOR X 10

PVC OUTER JACKET  
RIP CORD X 2

CABLE TYPE	NUMBER, SIZE (AWG)	10/C #6 + 2/C #18
	VOLTAGE	600
	OUTER JACKET	PVC
	SHIELDING	CORRUGATED COPPER
	MAX SHIELD RESISTANCE (OHM/FT @ 20C)	0.0035
	DRAIN	N/A
	RIPCORD	KEVLAR
	DC CONDUCTOR MATERIAL	COPPER
	DC CONDUCTOR SIZE (AWG)	6
	MAX DC RESISTANCE (OHM/1000FT)	0.411 @ 20° C
	COLOR CODE	BLACK/RED
	ALARM CONDUCTOR MATERIAL	COPPER
	ALARM CONDUCTOR SIZE (AWG)	18
	MAX DC RESISTANCE (OHM/1000FT)	6.7
	COLOR CODE	TBD
	FIBER CABLES	YES
	OUTER DIAMETER (IN)-NOMINAL	1.584
	WEIGHT (LB/FT)	1.614
	MINIMUM BEND RADIUS (IN)	19
	BEND MOMENT (LB/FT)	N/A
	TENSILE STRENGTH (LB)	340
	CRUSH RESISTANCE, FOTP-41 (N/MM)	22
	STRENGTH MEMBER	NO
	OPERATING TEMPERATURE RANGE (LOW)	-40°C
	OPERATING TEMPERATURE RANGE (HIGH)	+80°C
	FIBER TYPE	LOW WATER PEAK SINGLE MODE LOOSE TUBE
	FIBER STD. COMPLIANCE	ITU-T G.652, G.657-A2
	FIBER COATING DIA. (UM)	.242 ± .007 OR .9 ± .005MM
	FIBER COUNT	36
	# OF FIBER SUBUNITS	1
	FIBER COUNT EACH UNITS	36
	FIBER OUTER JACKETS	FR JACKET
	MAX ATTENUATION, 1310 NM (DB/KM)	LESS THAN EQUAL 0.5
	MAX ATTENUATION, 1550 NM (DB/KM)	LESS THAN EQUAL 0.5

L700 - FRBG

RF MODULE TYPE:

RRH, 1 UNIT PER SECTOR

DIMENSIONS, HxWxD:  
(WITHOUT BRACKETS)

22.9" x 12.6" x 6.3"

WEIGHT:  
(MOUNTED WEIGHT)

57.0 lb

PLAN VIEW

SIDE VIEW

FRONT VIEW

PERSPECTIVE VIEW:

NOKIA: FASB

RADOME MATERIAL:

PVC, UV RESISTANT

RADOME COLOR:

LIGHT GRAY

DIMENSIONS, HxWxD:

96.1" x 13.4" x 14.9"

NET WEIGHT:

108.0 lb

WEIGHT W/ 2 RRH:

207.2 lb

\*\*NEW FRUJ AND FHFB ARE INTEGRATED INTO RAS ENCLOSURE\*\*

PERSPECTIVE VIEW:

EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
ANTENNA &  
EQUIPMENT  
DETAILS

SHEET NUMBER  
A-8

HYBRID CABLE HIGH CAPACITY

Beyond this point:  
Radio frequency fields at this site  
may exceed FCC rules for human  
exposure.  
For your safety, obey all signs and site  
guidelines for working in radio  
frequency environments.  
In accordance with Federal Communications Commission rules on  
radio frequency emissions 47 CFR 1.1307(b)

Beyond this point:  
Radio frequency fields at this  
site exceed FCC rules for human  
exposure.  
Failure to obey all posted signs and  
site guidelines for working in radio  
frequency environments could result in  
serious injury.  
In accordance with Federal Communications Commission rules on  
radio frequency emissions 47 CFR 1.1307(b)

NOTES:

1. PLACE SIGN ON LOCATION BY AT&T SPECIFICATIONS (PROVIDED BY T-MOBILE).  
2. CONTRACTOR TO PROCURE FCC NO. FROM COMPLIANCE COORDINATOR.  
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER.  
4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.  
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

SCALE N.T.S. 7

IN CASE OF  
EMERGENCY CALL

1-877-611-5868

Site No: SE03416B

Site Name: SURREY DOWNS

NOTES:

1. PLACE SIGN ON LOCATION BY AT&T SPECIFICATIONS (PROVIDED BY T-MOBILE).  
2. CONTRACTOR TO PROCURE FCC NO. FROM COMPLIANCE COORDINATOR.  
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER.  
4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.  
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

FRBG

RAYCAP COVP (RNSNDC-7771-PF-48)

\*COVP TO BE MOUNTED VERTICALLY ONLY

DIMENSIONS:

HEIGHT: 20.22"  
WIDTH: 18.86"  
DEPTH: 7"

PLAN VIEW

FRONT VIEW

SIDE VIEW

ANTENNA SPECIFICATIONS

SCALE N.T.S. 1

(PCS, U1900+L1900) - FHFB

RF MODULE TYPE:

RRH, 1 UNIT PER SECTOR

DIMENSIONS, HxWxD:  
(WITHOUT BRACKETS)

23.0" x 12.6" x 7.8"

WEIGHT:  
(MOUNTED WEIGHT)

48.5 lbs

PLAN VIEW

SIDE VIEW

FRONT VIEW

PERSPECTIVE VIEW:

CAUTION & WARNING SIGN

SCALE N.T.S. 11

SIGNAGE

SCALE N.T.S. 8

NOTICE

Radio frequency fields beyond  
this point may exceed FCC  
general public exposure limit.  
Obey all posted signs and site guidelines  
for working in radio frequency  
environments.  
In accordance with Federal Communications Commission rules on  
radio frequency emissions 47 CFR 1.1307(b)

NOTES:

1. PLACE SIGN ON LOCATION BY AT&T SPECIFICATIONS (PROVIDED BY T-MOBILE).  
2. CONTRACTOR TO PROCURE FCC NO. FROM COMPLIANCE COORDINATOR.  
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER.  
4. SIGNS DISPLAYED ON SHEET SHALL BE PLACED ON T-MOBILE COMPOUND ONLY.  
5. FOR ADDITIONAL INFORMATION AND PLACEMENT, SEE NOTES UNDER SIGN.

COVP

SCALE N.T.S. 5

300W QUARTZ LAMP, HUBBELL  
QL-505, WITH 1/2" SWIVEL  
KNUCKLE MOUNT (3 PLCS.)

3/4"~ CONDUIT, TYP.

STANDARD CONDUIT  
CLAMP, TYP.

NEW H-FRAME POST

FHFB

SCALE N.T.S. 2

(AWS, L2100) - FRIJ

RF MODULE TYPE:

RRH, 1 UNIT PER SECTOR

DIMENSIONS, HxWxD:  
(WITHOUT BRACKETS)

23.0" x 12.6" x 7.8"

WEIGHT:  
(MOUNTED WEIGHT)

48.5 lbs

PLAN VIEW

SIDE VIEW

FRONT VIEW

PERSPECTIVE VIEW:

CABLE MOUNTING

SCALE N.T.S. 12

INSTRUCTIONAL & NOTICE SIGN

SCALE N.T.S. 9

SERVICE LIGHT

SCALE N.T.S. 6

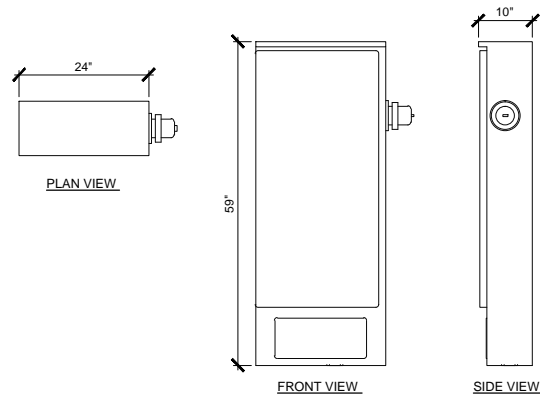
FRIJ

SCALE N.T.S. 3

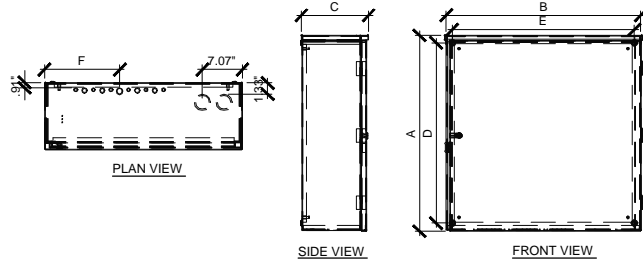
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



DIMENSIONS:	59"X24"X10"
WEIGHT:	150 lbs.
EXTERNAL MATERIAL:	ALUMINUM W/ POLYESTER POWDDER COAT PAINT
OPERATING VOLTAGE:	240/120, SINGLE PHASE
STANDBY GENERATOR INLET:	100 AMP MCGILL PART #PM4100B12W

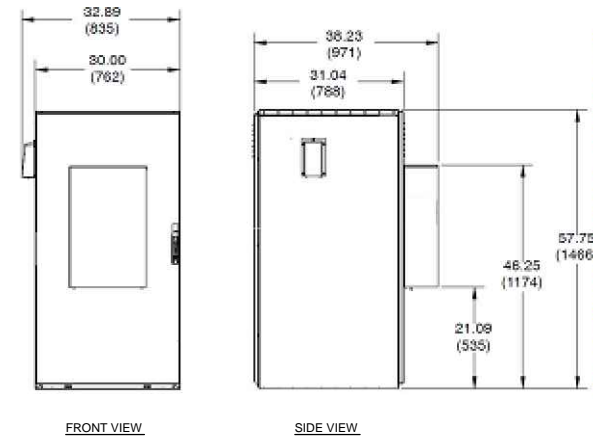
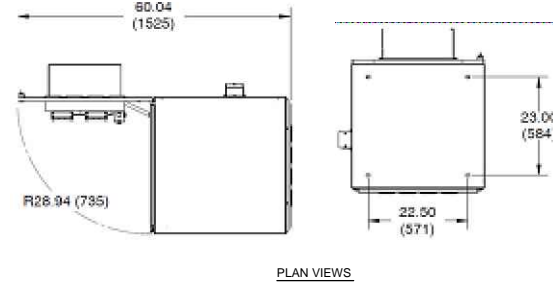


Accessories		Panel Size & E		Cordless Pattern	
Accessories	Dimensions	Panel Size	Panel E	Cordless Pattern	
ATC12645	12.00 x 14.00 x 5.50 36x 36x 177	Single	102 102	9.00 x 11.00 27x 27	
ATC26466	36.00 x 36.00 x 1.50 91.4 x 91.4 x 38	Single	15.50 343	20.00 x 23.00 689 x 689	C-C-E-F-G-H-I-J-K-L-M
ATC26468	26.00 x 24.00 x 8.00 66.0 x 61.0 x 203	Single	195 195	23.00 x 27.00 584 x 686	E-F-G-H-I-J-K
ATC26469	36.00 x 24.00 x 8.00 91.4 x 61.0 x 203	Single	758 191	20.00 x 17.00 689 x 533	E-F-G-H-I-J-K
ATC26488	36.00 x 30.00 x 8.00 91.4 x 76.2 x 203	Single	15.50 267	21.00 x 18.00 689 x 458	D-E-F-G-H-I-J-K-L
ATC26489	36.00 x 50.00 x 9.00 91.4 x 127 x 229	Single	15.50 689 x 458	20.00 x 23.00 689 x 689	C-C-E-F-G-H-I-J-K-L-M
ATC26490	42.00 x 36.00 x 9.00 106.6 x 91.4 x 229	Double	13.50 343	29.00 x 23.00 91 x 689	C-C-E-F-G-H-I-J-K-L-M
ATC26493	36.00 x 30.00 x 9.00 127.0 x 76.2 x 229	Double	15.50 343	45.00 x 23.00 1143 x 689	C-C-E-F-G-H-I-J-K-L-M
ATC48490	36.00 x 48.00 x 9.00 127.0 x 121.9 x 229	Double	495 495	45.00 x 23.00 1143 x 1143	A-B-C-D-E-F-G-H-I-J-K-L-M
ATC48492	36.00 x 36.00 x 17.00 91.4 x 91.4 x 430	Single	15.50 343	20.00 x 23.00 689 x 689	C-C-E-F-G-H-I-J-K-L-M



DIMENSIONS, HxWxD:	57.75"X32.89"X38.23"
WEIGHT:	383 lbs. (FULLY EQUIPPED)
CABLE ENTRY:	SIDES

**SECURE TO FLOOR USING:**  
**@ WOOD: 1/2"Ø LAG SCREWS WITH 2" MIN. EMBED.**  
**@ CONCRETE: (4) M12 BOLTS**



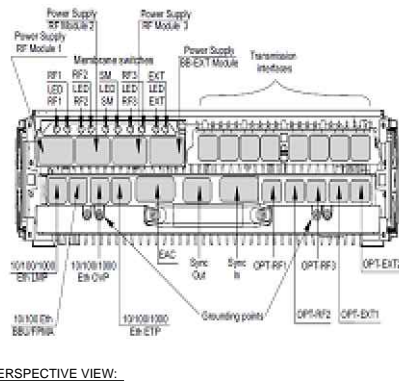
SCALE	10
N.T.S.	

SCALE	7
N.T.S.	

SCALE	1
N.T.S.	

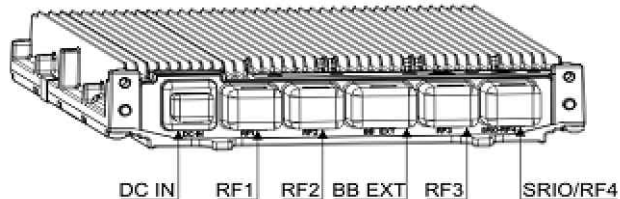
SCALE	11
N.T.S.	

**DIMENSIONS, HxWxD:** 5.2" x 11.76" x 16.6"  
**WEIGHT:** 41.9lb



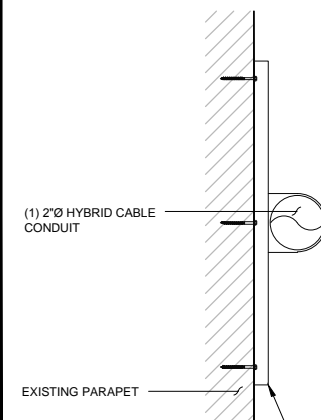
SCALE	8
N.T.S.	

DL SPEED: 450 Mbit/s  
UL SPEED: 150 Mbit/s  
RP3/OBSAI: 4X6Gbit/s PORTS  
(ONLY ONE AVAILABLE IN RL60)

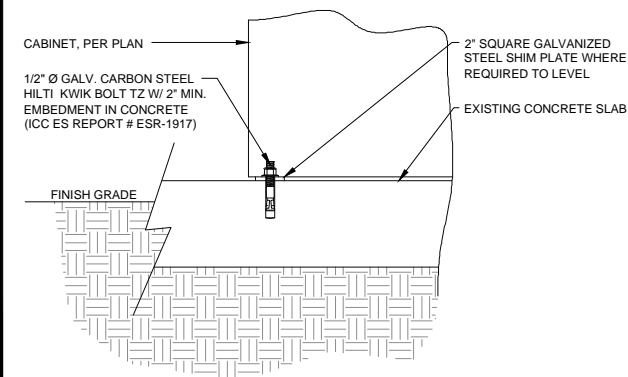


**PERSPECTIVE VIEW:**

SCALE	2
N.T.S.	



— SECURE CONDUITS AND FIBER LINE TO PARAPET TO STRUT CHANNEL. SECURE STRUT CHANNEL TO PARAPET LIGHT GAUGE METAL FRAME WORK WITH SELF DRILLING SCREWS.



NOTE: ANCHORAGE OCCURS AT EACH CORNER OF THE CABINET

SCALE	12
N.T.S.	

SCALE	9
N.T.S.	

SCALE	6
N.T.S.	

SCALE	3
N.T.S.	



EXPIRES 11/20/16

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011



**PNW MARKET OFFICE**  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006



**ARCHITECTURE & ENGINEERING**  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

0	10/17/2016	ISSUED FOR 100%CD	M
C	08/17/2016	NEW EQUIP. AREA LOCATION	J
B	07/22/2016	ADDED STRUCTURAL DETAILS	M
A	07/13/2016	ISSUED FOR 90% CD REVIEW	J
REV	DATE	DESCRIPTION	B

SE03416B

**SURREY DOWN**

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

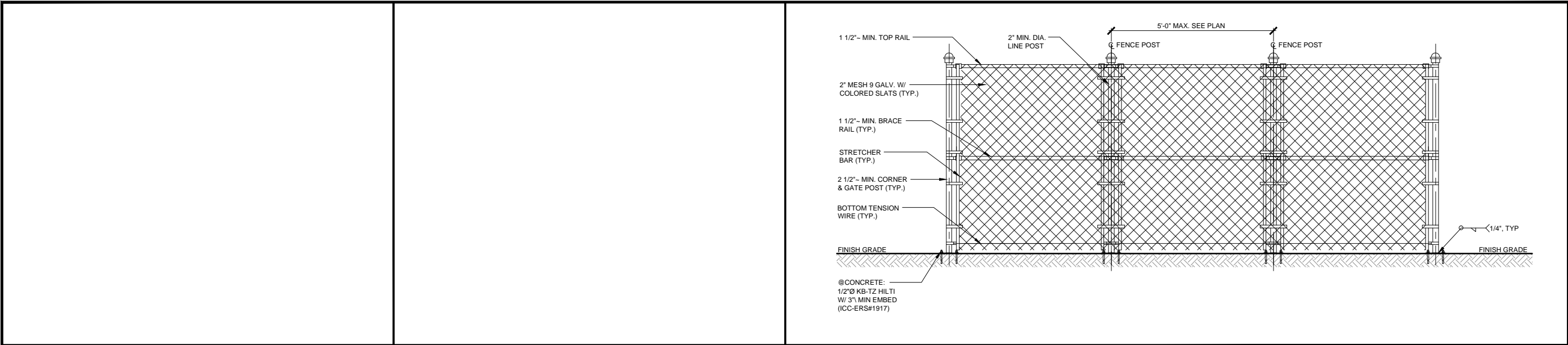
SHEET TITLE  
**CABINET &  
CONSTRUCTION  
DETAILS**

SHEET NUMBER

A-9



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



NOT USED

SCALE  
N.T.S.

10

NOT USED

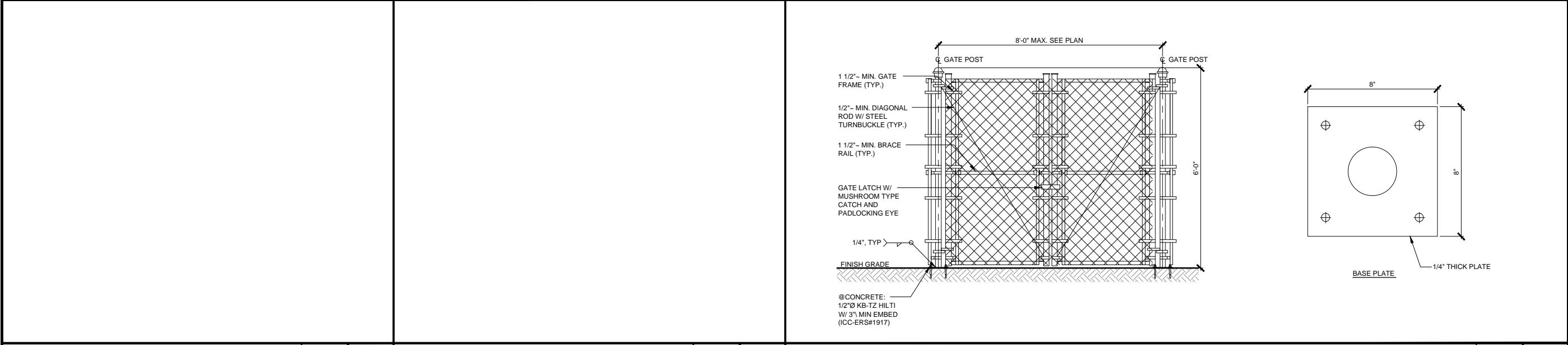
SCALE  
N.T.S.

7

CHAIN LINK FENCE DETAIL

SCALE  
N.T.S.

1



NOT USED

SCALE  
N.T.S.

11

NOT USED

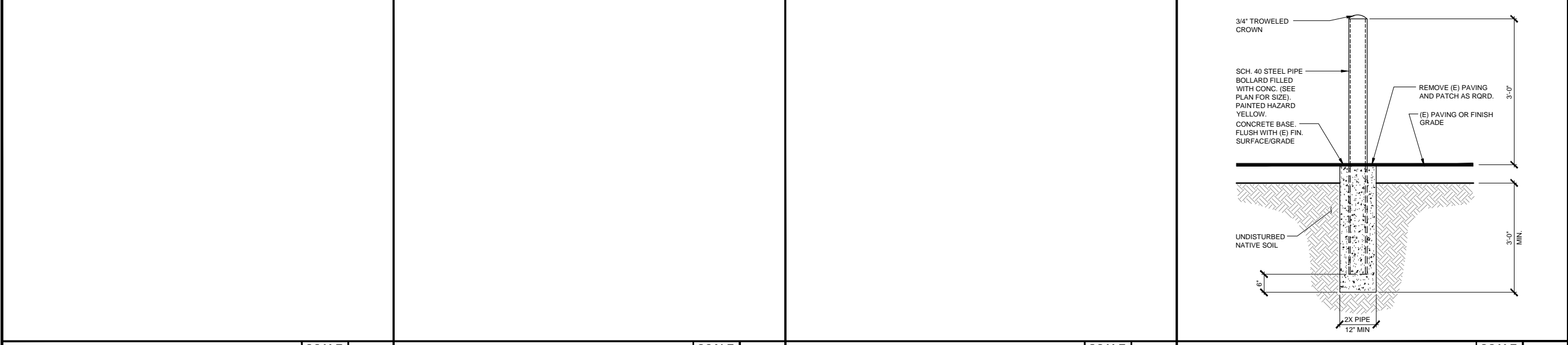
SCALE  
N.T.S.

8

DOUBLE SWING ACCESS GATE

SCALE  
N.T.S.

2



NOT USED

SCALE  
N.T.S.

12

NOT USED

SCALE  
N.T.S.

9

NOT USED

SCALE  
N.T.S.

6

BOLLARD DETAIL

SCALE  
N.T.S.

3



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
CONSTRUCTION  
DETAILS

SHEET NUMBER  
A-10

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

1. GENERAL REQUIREMENTS

- A.

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- B.

THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- C.

THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- D.

THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- E.

WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION. DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ARCHITECT/ENGINEER.
- F.

COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- G.

THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- H.

ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- I.

"PROVIDE": INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- J.

CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.

2. EQUIPMENT LOCATION

- A.

THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- B.

IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- C.

LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES. WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY. OBTAIN WRITTEN ACCEPTANCE FROM ARCHITECT/ENGINEER FOR THE NEW CHANGES BEFORE PROCEEDING.

3. SHOP DRAWINGS

- A.

N/A UNLESS NOTED OTHERWISE.

4. SUBSTITUTIONS

- A.

NO SUBSTITUTIONS ARE ALLOWED.

5. TESTS

- A.

BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

6. PERMITS

- A.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL THE REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

7. GROUNDING

- A.

THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
- B.

CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE AN EFFECTIVE ELECTRICAL CONTINUITY.
- C.

FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- D.

REFER TO GROUND BUS DETAILS, PROVIDE NEW SYSTEM, COMPLETE WITH CONDUCTORS, GROUND ROD(S) AND DESCRIBED TERMINATIONS.
- E.

ALL GROUNDING CONDUCTORS SHALL BE SOLID LINED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- F.

ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT CONDUCTORS SHALL BE #2 STRANDED, GROUND THHN (GREEN) INSULATION.
- G.

ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- H.

PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- I.

GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

8. UTILITY SERVICE

- A.

TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- B.

CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

9. PRODUCTS

- A.

ALL MATERIALS SHALL BE NEW, CONFORMING WITH THE NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- B.

CONDUIT:

1.

RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP ROCESS NO. 3.

2.

ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

3.

FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

4.

CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.

5.

ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.

6.

ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

7.

CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4 X 4 SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.
- C.

ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.

D.

PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.

E.

DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ARCHITECT/ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.

F.

TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.

G.

PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY.

H.

ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.

I.

GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
10. INSTALLATION
- A.

PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC. SUPPORT LUMINAIRES FROM UNDERSIDE OF STRUCTURAL CEILING. EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.

B.

CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ARCHITECT/ENGINEER BEFORE CORING.

C.

IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.

D.

LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.

E.

PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE U.B.C.
11. PROJECT CLOSEOUT
- A.

UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.

B.

PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.

C.

ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
1.

EQUIPMENT POWER SHALL BE 200A, 1Ø, 3W, 120/208V OR 120/240V.

2.

UTILITY RECEPTACLE IS A GFCI DUPLEX OUTLET INSTALLED IN THE DEADFRONT OF PPC.

3.

PROVIDED A MIN. 36" WORK CLEARANCE IN FRONT OF PANELS / SERVICE EQUIPMENT.

4.

ALL BREAKERS IN THE ELEC. PANEL ARE RATED 10,000 RMS SYMMETRICAL AMPS, 240V MAX. 75°C.

5.

ALL WIRING SHALL BE COPPER 75°C U.N.O.










































6.


CONDUIT REQUIREMENTS (TYP., U.N.O.)  
UNDERGROUND: PVC (SCHED 40 OR 80)  
INDOOR: EMT (RGS IN TRAFFIC AREAS)  
OUTDOOR: RGS (ABOVE GRADE)


7.

APPLETON EMERGENCY GENERATOR PLUG AT 36" A.F.F. CONTRACTOR TO VERIFY EXACT LOCATION WITH LANDLORD AND UTILITY COORDINATOR.

8.

PLACE "TRUE TAPE" AND PULL ROPE IN THE CONDUITS AS REQUIRED.
- ELECTRICAL NOTES
- | SCALE  |                              |       |                                  |       |                                          |
|--------|------------------------------|-------|----------------------------------|-------|------------------------------------------|
| N.T.S. |                              |       |                                  |       |                                          |
| 2      |                              |       |                                  |       |                                          |
| A      | AMPERE                       | ELEC  | ELECTRICAL                       | MFR   | MANUFACTURER                             |
| ACCA   | ANTENNA CABLE COVER ASSEMBLY | EMT   | ELECTRICAL METALLIC TUBING       | MIN   | MINIMUM                                  |
|        |                              | ENCL  | ENCLOSURE                        | MLO   | MAIN LUGS ONLY                           |
| AIC    | AMPERE INTERRUPTING CAPACITY | EXIST | EXISTING                         | MTD   | MOUNTED                                  |
|        |                              | FAC   | FACTOR                           | MTG   | MOUNTING                                 |
| APPROX | APPROXIMATELY                | F/A   | FIRE ALARM                       | MTS   | MANUAL TRANSFER SWITCH                   |
| AT     | AMPERE TRIP                  | FLUOR | FLUORESCENT                      | N     | NEUTRAL                                  |
| AWG    | AMERICAN WIRE GAGE           | FT    | FOOT/FEET                        | (N)   | NEW                                      |
| BATT   | BATTERY                      | FU    | FUSE                             | NEMA  | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| BD     | BOARD                        | G     | GROUND                           |       |                                          |
| BR     | BRANCH                       | GEN   | GENERATOR                        | OH    | OVERHEAD                                 |
| BRKR   | BREAKER                      | GFCI  | GROUND FAULT CIRCUIT INTERRUPTER | P     | POLE                                     |
| BTWC   | BARE TINNED COPPER WIRE      | PCS   | PERSONAL COMMUNICATION SYSTEM    |       |                                          |
| BTS    | BASE TRANSMISSION SYSTEM     | GND   | GROUNDING                        |       |                                          |
| C      | CONDUIT                      | GPS   | GLOBAL POSITIONING SYSTEM        | PH    | PHASE                                    |
| CAB    | CABINET                      | GR    | GROWTH                           | PNLBD | PANELBOARD                               |
| CB     | CIRCUIT BREAKER              | HDBC  | HARD DRAWN COPPER WIRE           | PPC   | POWER PROTECTION CABINET                 |
| CKT    | CIRCUIT                      | HPS   | HIGH PRESSURE SODIUM             | PRC   | PRIMARY RADIO CABINET                    |
| CONT   | CONTINUOUS                   | LG    | LENGTH                           | PRI   | PRIMARY                                  |
| DEM    | DEMAND                       | LPS   | LOW PRESSURE SODIUM              | PWR   | POWER                                    |
| (E)    | EXISTING                     | MAX   | MAXIMUM                          | RCPT  | RECEPTACLE                               |
| EGR    | EMERGENCY GEN. RECEPTACLE    | MECH  | MECHANICAL                       | RGS   | RIGID GALVANIZED STEEL                   |
| SCALE  |                              |       |                                  |       |                                          |
| N.T.S. |                              |       |                                  |       |                                          |
| 3      |                              |       |                                  |       |                                          |
- GENERAL ABBREVIATIONS
- |                                                                                       |           |                                                                                                                                                  |                                                                                       |                                                                                            |
|---------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|    | OHT/DHP   | OVERHEAD TELEPHONE/OVERHEAD POWER                                                                                                                |    | LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336                         |
|    | OHT       | OVERHEAD TELEPHONE LINE                                                                                                                          |    | 5/8" X 10'-0" .CU. GND ROD 30" MIN. BELOW GRADE.                                           |
|    | OHP       | OVERHEAD POWER LINE                                                                                                                              |    | 5/8" X 10'-0" .CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.                              |
|  | E         | POWER RUN                                                                                                                                        |  | CHEMICAL GROUND ROD (XIT GROUND ROD)                                                       |
|  | T         | TELCO RUN                                                                                                                                        |  | CADWELD CONNECTION                                                                         |
|  | T/E       | POWER/TELCO RUN                                                                                                                                  |  | MECHANICAL CONNECTION                                                                      |
|  | G         | GROUNDING CONDUCTOR                                                                                                                              |  | HALO GROUND CONNECTION                                                                     |
|  | - - - - - | GROUNDING CONDUCTOR                                                                                                                              |  | CIRCUIT BREAKER                                                                            |
|  | - - - - - | CONDUIT UNDERGROUND                                                                                                                              |  | UTILITY METER BASE                                                                         |
|  |           | FUSE, SIZE AND TYPE AS INDICATED.                                                                                                                |  | TRANSFORMER                                                                                |
|  |           | SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. D222NR8                                                              |  | STEPDOWN TRANSFORMER                                                                       |
|  |           | MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE                                                                                 |  | RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362                      |
|  |           | LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T                                   |  | TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN                                    |
|  |           | LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T                                  |  | TOGGLE SWITCH, 1P-120V-15A, "WP"                                                           |
|  |           | LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121 |  | IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO. 7100F |
|  |           | EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB                                     |  | POLE                                                                                       |
|  |           | COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC                                                                       |  | (N) POLE MOUNTED XFMER                                                                     |
|  |           | EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91                                                                                |  | (E) POLE MOUNTED XFMR                                                                      |
|  |           | LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1                                               |  | (N) PAD MOUNTED XFMER                                                                      |
|  |           | LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505                                                                      |  | (E) PAD MOUNTED XFMER                                                                      |
- ELECTRICAL GENERAL NOTES
- 1
- GENERAL LEGEND
- SCALE  
N.T.S.
- 4
- 
- EXPIRES 11/2016  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
- 

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011
- 

**PNW MARKET OFFICE**  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006
- 

**ARCHITECTURE & ENGINEERING**  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108
- | REV | DATE       | DESCRIPTION              | BY  |
|-----|------------|--------------------------|-----|
| 0   | 10/17/2016 | ISSUED FOR 100%CD        | MGM |
| C   | 08/17/2016 | NEW EQUIP. AREA LOCATION | JCC |
| B   | 07/22/2016 | ADDED STRUCTURAL DETAILS | MGM |
| A   | 07/13/2016 | ISSUED FOR 90% CD REVIEW | JCC |
- SE03416B

SURREY DOWN

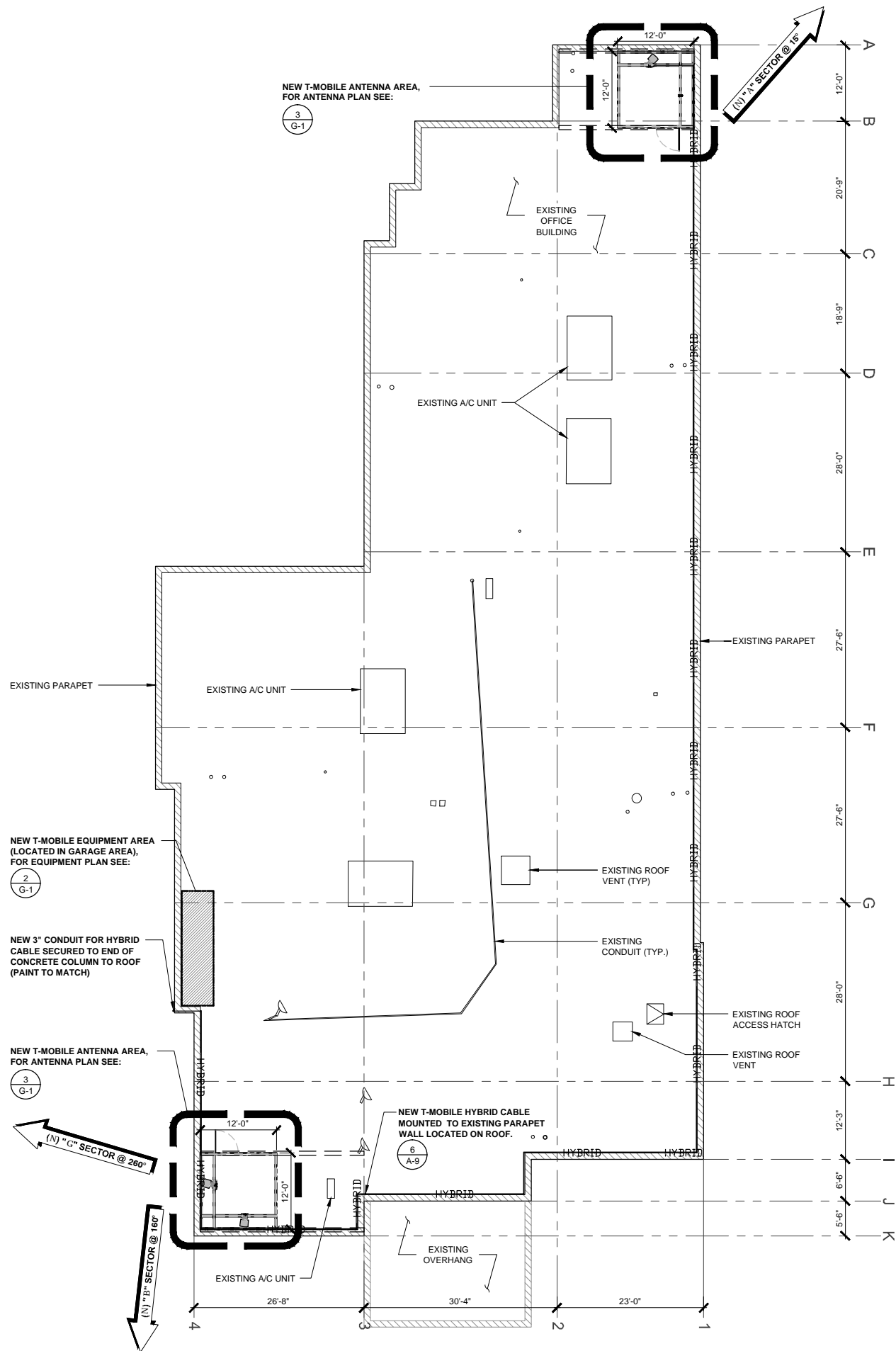
11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP
- JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION
- SHEET TITLE

ELECTRICAL  
NOTES
- SHEET NUMBER

E-1



LANDLORD SIGNATURE



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
**ELECTRICAL  
SITE PLAN**

SHEET NUMBER  
**E-2**

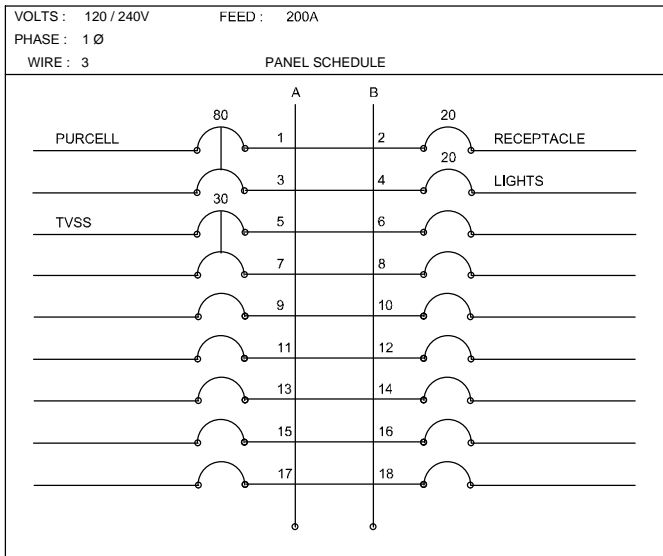


NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

ELECTRICAL SITE PLAN

0 3' 6' 11' SCALE: 3/32" = 1'-0" (24x36)  
(OR) 3/64" = 1'-0" (11x17)

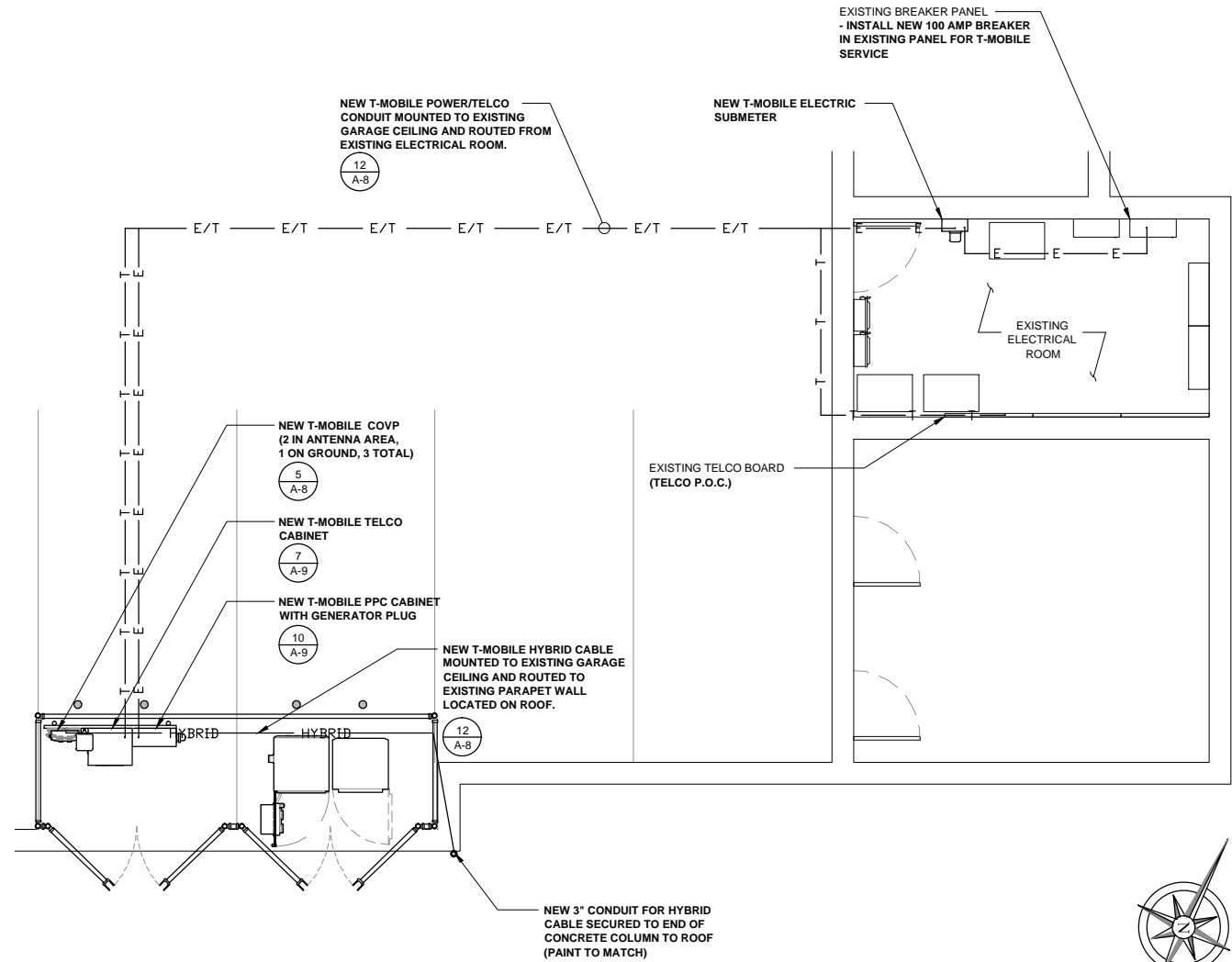
NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



- NOTES :
- ALL EQUIPMENT (FUSES, CIRCUIT BREAKERS, BUSSING, ETC.) SHALL HAVE A SHORT CIRCUIT RATING EQUAL TO, OR GREATER THAN, THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LOCATION.
  - ALL ELECTRICAL EQUIPMENT SHALL BE U.L. LISTED.
  - ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.
  - SQUARE "O" NOOD PANELBOARD
  - CU-2 SHALL OPERATE ONLY IF CU-1 IS DISCONNECTED FROM POWER BY AUTOMATIC CONTROLS.
  - MULTIPLE CIRCUITS NEED COMMON "OFF" HANDLE CUPS.

PANEL SCHEDULE

SCALE  
N.T.S. 1

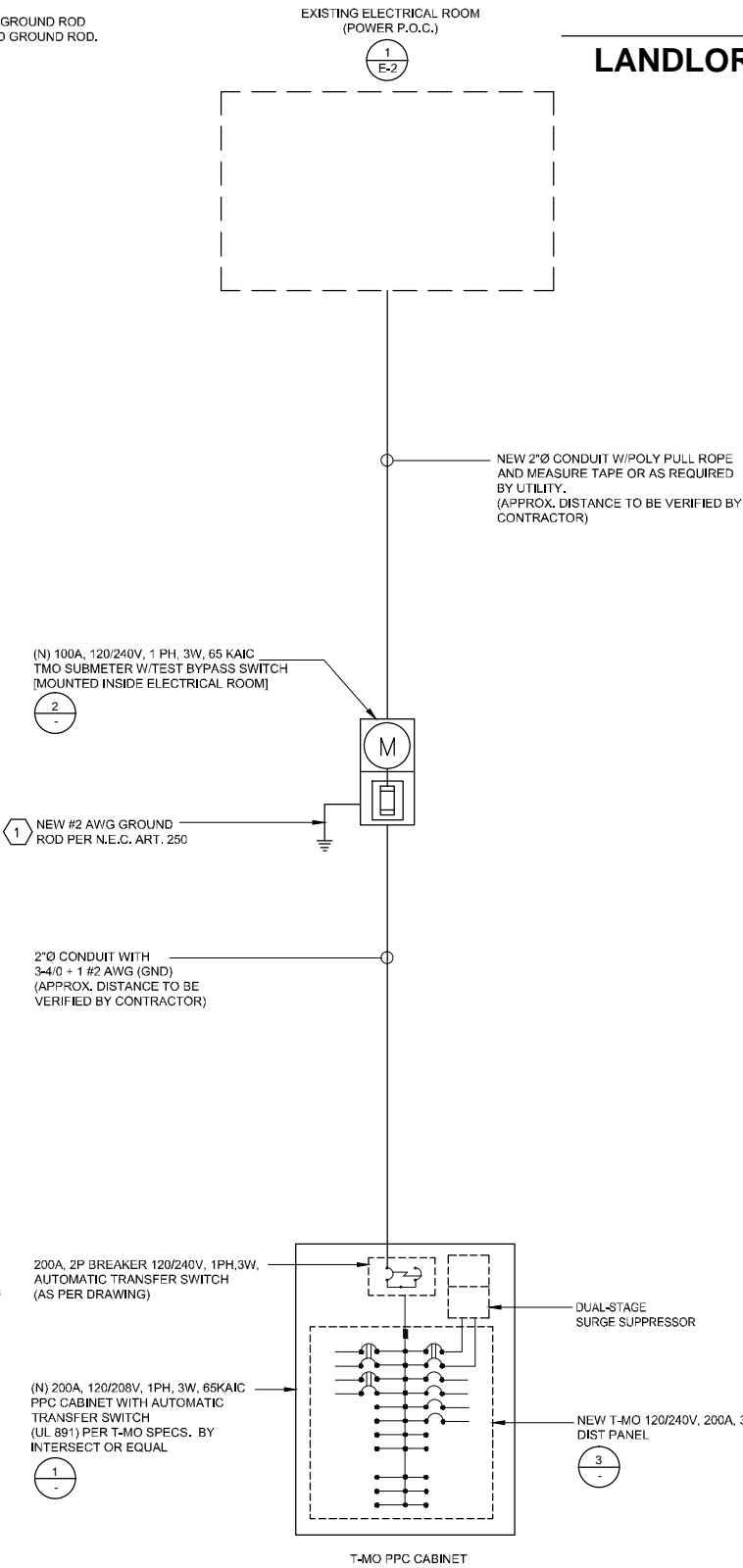


EQUIPMENT ELECTRICAL PLAN

SCALE  
N.T.S. 2

KEY NOTES:

- 1 NEW 5/8"Ø x 10'-0" COPPER CLAD STEEL GROUND ROD  
AND #2 CU GROUND, BOND TO ISOLATED GROUND ROD.



NOTES:

- UNLESS NOTED OTHERWISE, ALL CONDUITS  
TO BE INSTALLED TO BE EMT FOR INDOOR  
AND RIDGED FOR OUTDOOR, UNLESS NOT  
ALLOWED BY ELEC CODE.
- ALL ELECTRICAL CONDUCTORS TO BE  
APPROPRIATELY SIZED AND TO  
BE INSTALLED AND CONNECTED BY GC,  
UNLESS OTHERWISE NOTED.

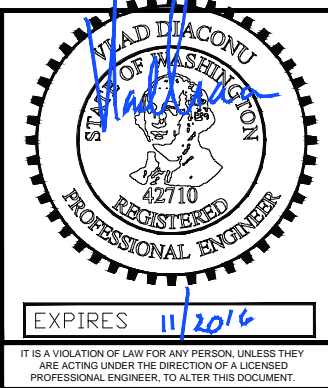
UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE SITE WALK, PRIOR TO START  
OF CONSTRUCTION CONTRACTOR TO OBTAIN CURRENT UTILITY PLAN.

CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY  
COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES,  
CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED); TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY  
FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

ONE LINE DIAGRAM

SCALE  
N.T.S. 3

LANDLORD SIGNATURE



REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP



SHEET TITLE  
PANEL SCHEDULE  
& ONE-LINE  
DIAGRAM

SHEET NUMBER  
E-3



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

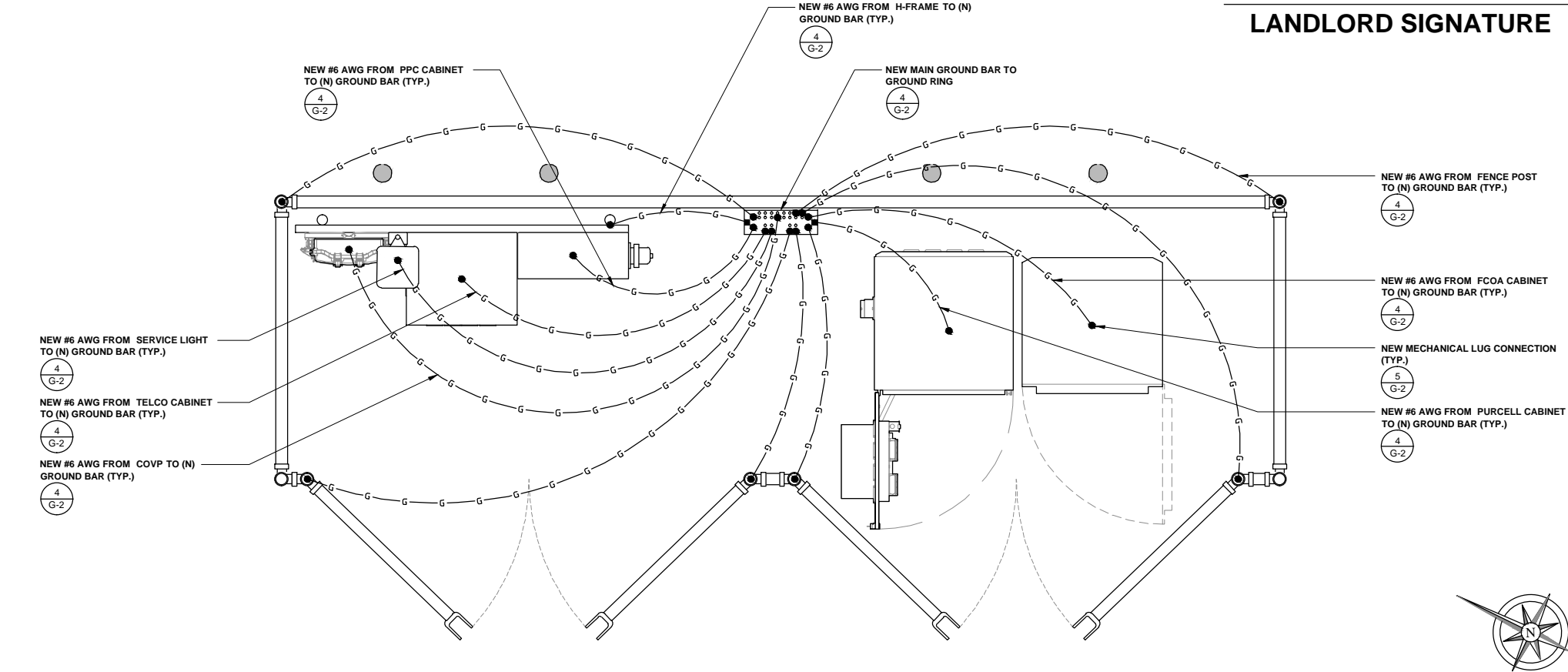
ELECTRICAL GROUNDING SPECIFICATIONS

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE CURRENTLY IN EFFECT FOR THE AUTHORITY HAVING JURISDICTION.
- ALL GROUNDING DEVICES SHALL BE U.L. LISTED FOR THEIR INTENDED USE.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- CONNECTIONS OF ALL GROUND WIRES TO THE GROUND RING SHALL BE EXOTHERMIC (CAD-WELDED), UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND T-MOBILE WIRELESS BROADBAND STANDARDS.
- GROUNDING CONDUCTORS SHALL BE ROUTED ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. WHEN REQUIRED, GROUND LEADS SHALL BE BENT TO A MINIMUM OF 8" RADIUS.
- WHERE GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO THE GROUND RING, INSTALL WIRE IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM CONNECTION POINT TO 5" BELOW GRADE AND SEAL THE TOP WITH SILICONE SEALANT.
- ALL GROUND BARS SHALL BE TINNED, 1/4" COPPER, SECTOR BARS 2", COLLECTOR AND MGB BARS 4", OF SUFFICIENT LENGTH TO ACCOMMODATE ALL REQUIRED CONNECTIONS WITHOUT DOUBLING LUGS, AND EACH INSTALLED WITH ISOLATORS. WHEN CONNECTING GROUND BARS (WITHIN 10 FEET OF GRADE) DIRECTLY TO THE GROUND RING, 2 EA. #2 SOLID DOWNLEADS SHALL BE CAD-WELDED TO THE GROUND BAR, 1 AT EACH OPPOSITE BOTTOM CORNER, AND EACH SHALL RUN IN 3/4" HEAVY WALL LIQUID TIGHT FLEXIBLE CONDUIT FROM GROUND BAR DOWN TO THE GROUND RING. WHEN CONNECTING SECTOR GROUND BARS, DAISY-CHAIN THE GROUND BARS AND RUN 1 EA. #2 AWG STRANDED COPPER WIRE WITH THWN INSULATION FROM THE MIDDLE GROUND BAR TO THE GROUND RING AND CAD-WELD TO THE RING.
- WHEN ATTACHING STRANDED GROUND LEADS TO THE GROUND BARS, 2 HOLE COMPRESSION LUGS SHALL BE USED, PROTECT WITH WEATHERPROOF HEAT SHRINK, AND WITH A THIN COAT OF "KOP'R SHIELD" OR EQUIVALENT PROPERLY APPLIED AND ATTACHED ONLY WITH STAINLESS STEEL HARDWARE.
- WHEN GROUNDING EQUIPMENT ENCLOSURES, PANELS, FRAMES, AND OTHER METAL APPARATUS, A #6 AWG STRANDED COPPER WIRE WITH THWN INSULATION SHALL BE ATTACHED UTILIZING A 2 HOLE COMPRESSION TYPE LUG, PROTECTED WITH WEATHERPROOF HEAT A CLEAN AND CORROSION FREE METALLIC SURFACE UTILIZING STAINLESS STEEL SELF-TAPPING SCREWS AS NOTED IN NOTE 10 BELOW.
- PREPARE ALL BONDING SURFACES FOR GROUND CONNECTIONS BY REMOVING ANY AND ALL PAINT AND CORROSION TO SHINY METAL. FOLLOWING CAD-WELDED CONNECTIONS TO NON-COPPER SURFACES, APPLY ONE COAT OF ANY ANTI-OXIDIZING PAINT, "COLD GALV" OR EQUIVALENT.
- GROUND RODS SHALL BE COPPER-CLAD STEEL 5/8"x10", SPACED NO LESS THAN 10' ON CENTER.
- ALL GROUND SYSTEM CONDUCTORS AND CONDUITS SHALL BE SECURED UTILIZING ONLY NONMETALLIC, NON-CONDUCTIVE, UV RATED CLAMPS, BRACKET, AND OR SUPPORTS.
- WHEN REQUIRED, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF AN INDEPENDENT TESTING FIRM TO VERIFY, UTILIZING A MEGGER TEST, THAT THE RESISTANCE TO EARTH OF THE NEW GROUND SYSTEM IS EQUAL TO OR LESS THAN 5 (OHMS). A COPY OF THE COMPLETE TESTING REPORT SHALL BE PROVIDED TO THE T-MOBILE REPRESENTATIVE.
- ALL MATERIALS AND HARDWARE SHALL BR INSTALLED IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND DEFINED IN NFPA-70 AND APPROVED BY A,H,J.

LEGEND	
■	EXOTHERMIC CONNECTION
●	MECHANICAL CONNECTION
⎓	EQUIPMENT GROUND BAR
⎓	ANTENNA GROUND BAR (AS REQUIRED)
— — —	#2 AWG GROUND LEAD (AS REQUIRED)

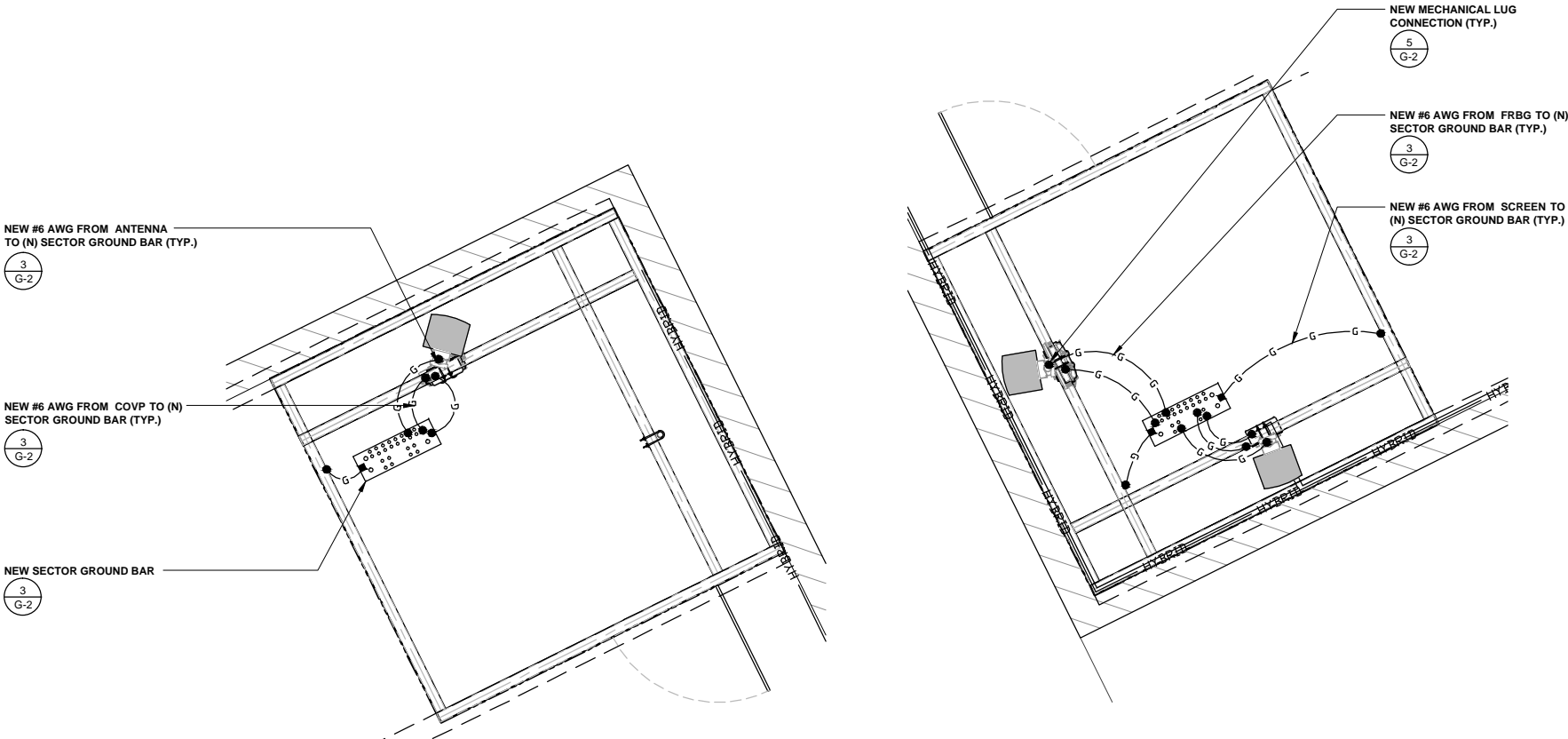
NOTE:

- CONTRACTOR TO REPLACE ALL MISSING GROUND BARS AND GROUNDING CONNECTIONS AS REQUIRED.



EQUIPMENT GROUNDING

SCALE  
N.T.S. 2



ANTENNA GROUNDING

SCALE  
N.T.S. 3

LANDLORD SIGNATURE



EXPIRES 11/2016  
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

**PNW MARKET OFFICE**  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

**ARCHITECTURE & ENGINEERING**  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION


SHEET TITLE  
GROUNDING  
PLANS

SHEET NUMBER


G-1

NOTES & LEGEND


SCALE  
N.T.S. 1




TYPE HS




TYPE 2-YA-2




TYPE XA




TYPE YA-2




TYPE GT




TYPE TA




TYPE VN



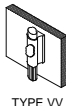
TYPE NC



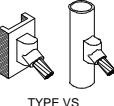
TYPE SS



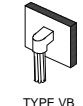
TYPE GY



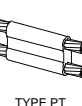
TYPE VV



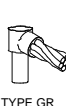
TYPE VS



TYPE VB



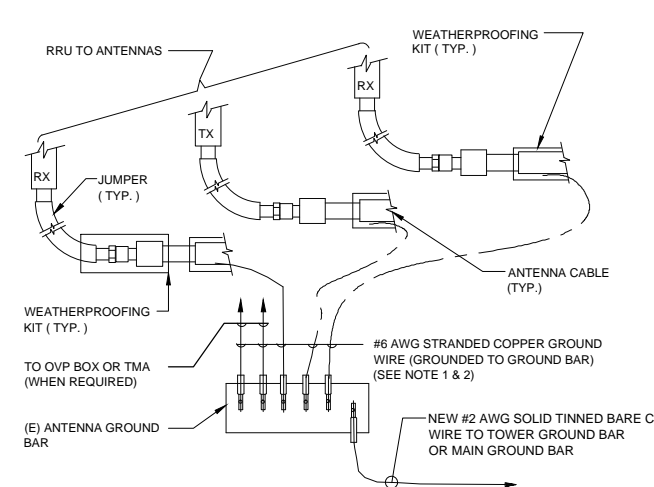
TYPE PT



TYPE GR

NOTE:

ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



RRU TO ANTENNAS

WEATHERPROOFING KIT ( TYP. )

ANTENNA CABLE

JUMPER ( TYP. )

WEATHERPROOFING KIT ( TYP. )

TO OVP BOX OR TMA (WHEN REQUIRED)

(E) ANTENNA GROUND BAR

#6 AWG STRANDED COPPER GROUND WIRE (GROUNDED TO GROUND BAR) (SEE NOTE 1 & 2)

NEW #2 AWG SOLID TINNED BARE CU WIRE TO TOWER GROUND BAR OR MAIN GROUND BAR

12" TO 24"

2 1/2" Ø MAX.

ANTENNA CABLE

WEATHERPROOFING KIT (SEE NOTE 3)

#6 AWG STRANDED Cu WIRE WITH GREEN, 600V, THWN INSULATION OR BLACK (GROUNDED TO GROUND BAR)

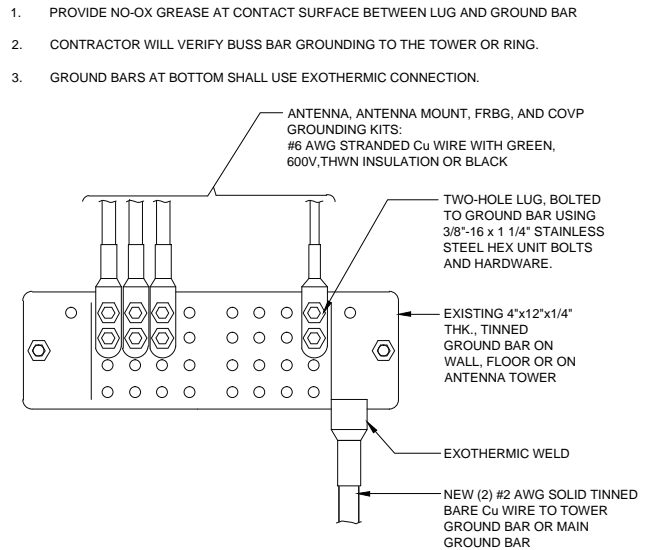
CABLE GROUND KIT TO ANTENNA CABLE CONNECTION

NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE WITH TWO-HOLE LUG.
- WEATHERPROOFING SHALL INCORPORATE PPC WEATHERPROOFING TAPE KIT, COLD SHRINK SHALL NOT BE USED.

NOTES:

- PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
- CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO THE TOWER OR RING.
- GROUND BARS AT BOTTOM SHALL USE EXOTHERMIC CONNECTION.



ANTENNA, ANTENNA MOUNT, FRBG, AND COVP GROUNDING KITS: #6 AWG STRANDED Cu WIRE WITH GREEN, 600V, THWN INSULATION OR BLACK

TWO-HOLE LUG, BOLTED TO GROUND BAR USING 3/8"-16 x 1 1/4" STAINLESS STEEL HEX UNIT BOLTS AND HARDWARE.

EXISTING 4"x12"x1/4" THK., TINNED GROUND BAR ON WALL, FLOOR OR ON ANTENNA TOWER

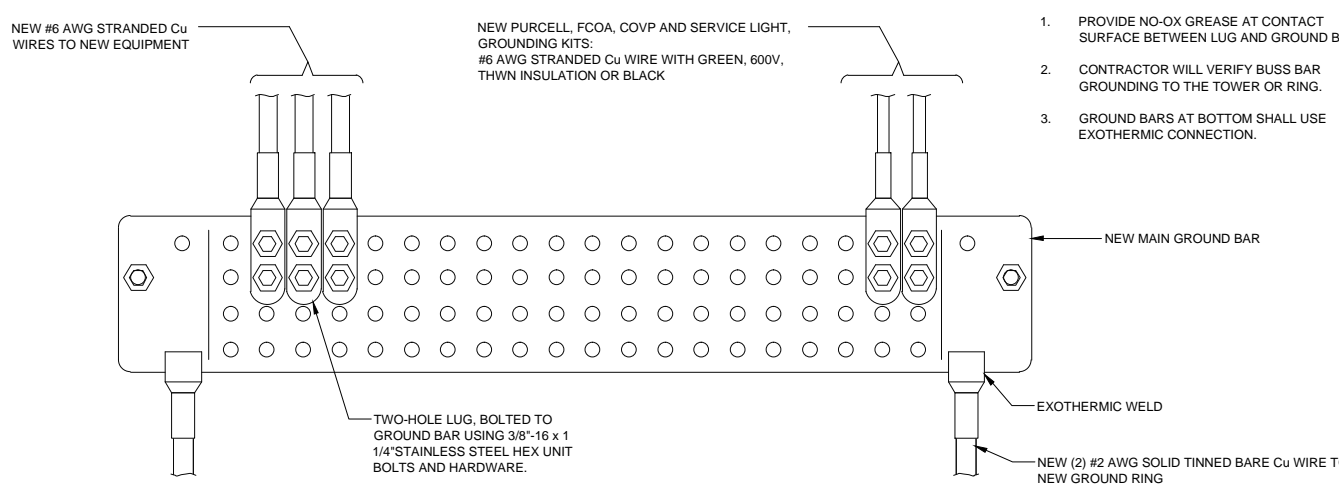
EXOTHERMIC WELD

NEW (2) #2 AWG SOLID TINNED BARE Cu WIRE TO TOWER GROUND BAR OR MAIN GROUND BAR

EXOTHERMIC WELDING

SCALE  
N.T.S.

1



NEW #6 AWG STRANDED Cu WIRES TO NEW EQUIPMENT

NEW PURCELL, FCOA, COVP AND SERVICE LIGHT, GROUNDING KITS: #6 AWG STRANDED Cu WIRE WITH GREEN, 600V, THWN INSULATION OR BLACK

NEW MAIN GROUND BAR

EXOTHERMIC WELD

TWO-HOLE LUG, BOLTED TO GROUND BAR USING 3/8"-16 x 1 1/4" STAINLESS STEEL HEX UNIT BOLTS AND HARDWARE.

NEW (2) #2 AWG SOLID TINNED BARE Cu WIRE TO NEW GROUND RING

NOTES:

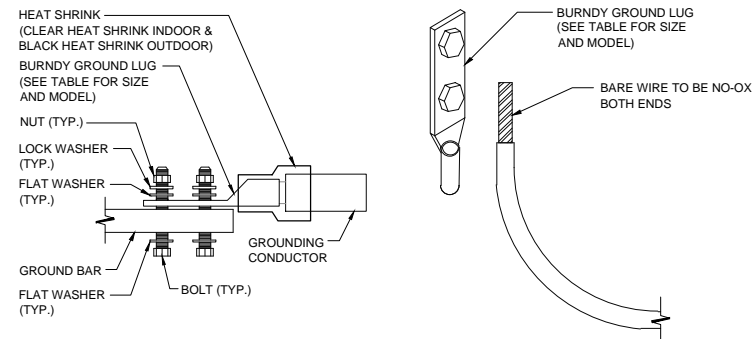
- PROVIDE NO-OX GREASE AT CONTACT SURFACE BETWEEN LUG AND GROUND BAR
- CONTRACTOR WILL VERIFY BUSS BAR GROUNDING TO THE TOWER OR RING.
- GROUND BARS AT BOTTOM SHALL USE EXOTHERMIC CONNECTION.

CABLE GROUNDING

SCALE  
N.T.S.

2

WIRE SIZE	BURNDY LUG	BOLT SIZE
#6 AWG GREEN INSULATED	YA6C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG SOLID TINNED	YA3C-2TC38	3/8" - 16 NC S 2 BOLT
#2 AWG STRANDED	YA2C-2TC38	3/8" - 16 NC S 2 BOLT
#2/0 AWG STRANDED	YA26-2TC38	3/8" - 16 NC S 2 BOLT
#4/0 AWG STRANDED	YA28-2N	1/2" - 16 NC S 2 BOLT



HEAT SHRINK (CLEAR HEAT SHRINK INDOOR & BLACK HEAT SHRINK OUTDOOR)

BURNDY GROUND LUG (SEE TABLE FOR SIZE AND MODEL)

NUT (TYP.)

LOCK WASHER (TYP.)

FLAT WASHER (TYP.)

GROUND BAR

FLAT WASHER (TYP.)

BOLT (TYP.)

GROUNDING CONDUCTOR

BURNDY GROUND LUG (SEE TABLE FOR SIZE AND MODEL)

BARE WIRE TO BE NO-OX AT BOTH ENDS

NOTES:

- ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER, LOCK WASHER AND NUT.
- COPPER SHIELD, ANTIOX, CR NO-OX OR EQUIVALENT SHALL BE PLACE WHERE ALL DISSIMILAR METALS CONNECT.
- ALL LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL LUGS MUST HAVE INSPECTION WINDOWS.

SECTOR GROUND BAR

SCALE  
N.T.S.

3

MAIN GROUND BAR

SCALE  
N.T.S.

4

MECHANICAL LUG CONNECTION

SCALE  
N.T.S.

5

NOT USED

SCALE  
N.T.S.

6

NOT USED

SCALE  
N.T.S.

7

NOT USED

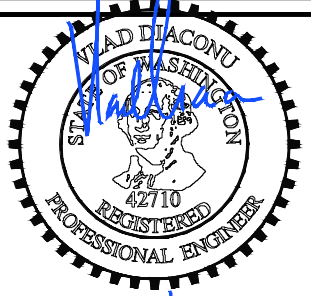
SCALE  
N.T.S.

8

NOT USED


SCALE  
N.T.S.

9




EXPIRES 11/2016


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.



19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011



PNW MARKET OFFICE  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006



ARCHITECTURE & ENGINEERING  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

SHEET TITLE  
GROUNDING  
DETAILS

SHEET NUMBER  
G-2

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

LANDLORD SIGNATURE

ANTENNA SCHEDULE-FINAL CONFIGURATION													
SECTOR (COLOR)	POSITION	EXISTING/ NEW	MANUFACTURER	ANTENNA MODEL	PORT	ANTENNA AZIMUTH	RAD CENTER	DIMENSIONS (LxWxD)	WEIGHT (LBS)	TRANSMISSION CABLE			
										QTY.	LENGTH	SIZE	TYPE
ALPHA (RED)	A1	NEW	NOKIA	FASB RAS (PENTA)	10	15°	38'-0"	96.1" x 14.9" x 13.4"	207.2	(3)	15'	TBD	FIBER JUMPER
										(1)	75'	1.584"Ø	HCS LOW FIBER
BETA (GREEN)	B1	NEW	NOKIA	FASB RAS (PENTA)	10	160°	38'-0"	96.1" x 14.9" x 13.4"	207.2	(3)	15'	TBD	FIBER JUMPER
										(1)	150'	1.584"Ø	HCS LOW FIBER
GAMMA (BLUE)	C1	NEW	NOKIA	FASB RAS (PENTA)	10	260°	38'-0"	96.1" x 14.9" x 13.4"	207.2	(3)	15'	TBD	FIBER JUMPER

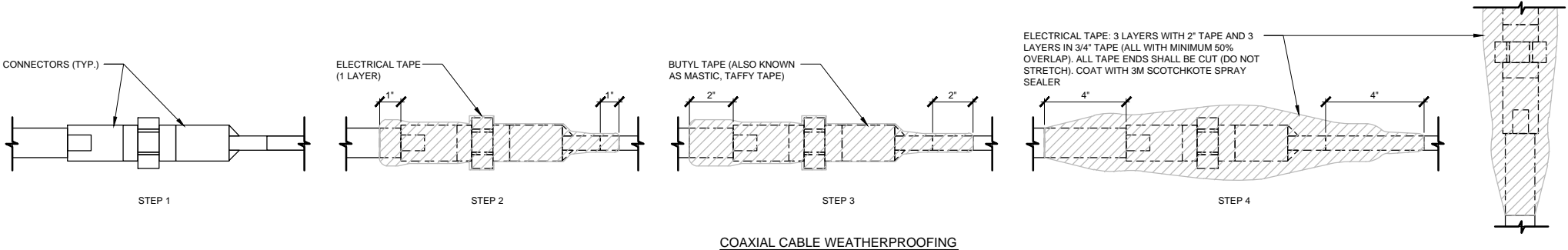
NOTE:

1. ANTENNA CLEARANCE AND MOUNTING TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION WITH FINAL ANTENNA SPECIFICATIONS, MOUNTING HARDWARE, AND RF DESIGN.

2. **CD IS BASED ON RFDS VERSION: 0.1 DATED: 05/27/2016.**

ANTENNA AND COAX GENERAL NOTES:

- ALL ANTENNA AND COAXIAL ANTENNA CABLE TO BE FURNISHED BY T-MOBILE AND INSTALLED BY CONTRACTOR.
- COAX COLOR CODING: ANTENNAS TO BE NUMBERED IN A CLOCKWISE MANNER FROM TRUE NORTH AND COLOR CODED AS FOLLOWS.
- THE ABOVE COAX COLOR CODING APPLIES TO SECTORIZED SITES. FOR OMNI SITES, USE THE AT0, BT0, & GT0 COLOR CODES ONLY.
- COAX SHALL BE TAGGED WITH COLOR CODING AT (2) PLACES USING 1" WIDE WEATHER PROOF COLORED VINYL TAPE AT THE FOLLOWING LOCATIONS:
  - #1 - AT ANTENNA CONNECTION
  - #2 - AT ENTRY TO EQUIPMENT CABINET
- RUN COAXIAL CABLE WITH MINIMUM 12" SLACK & 12" FROM EDGE OF EQUIPMENT CABINETS, ACROSS WAVE GUIDE BRIDGE (IF APPLICABLE), UP TO TOWER LEG (IF APPLICABLE), & DISTRIBUTE TO EACH ANTENNA DEVICE. FURNISH AND INSTALL A MINIMUM OF (3) GROUND KITS PER COAXIAL CABLE ACCORDING TO ELECTRICAL DRAWINGS. VERIFY NUMBER OF ANTENNAS, CABLE, & CABLE DIAMETER WITH PROJECT MANAGER.
- ALL COAXIAL CABLE CONNECTIONS TO BE WEATHER PROOFED.
- CONTRACTOR TO DIP CABLES AND JUMPERS WHERE NECESSARY.
- TAGGING:
  - ALL COAXIAL CABLES TO BE MARKED WITH COLOR CODED TAPE TO INDICATE THE ANTENNA SECTOR.
  - COLORLED ELECTRICAL TAPE SHALL MARK EACH END OF CABLE AND EACH END OF JUMPERS AS CLOSE TO EACH END AS POSSIBLE. (NOT TO INTERFERE WITH WEATHERPROOFING.)
- COAXIAL CABLE SPECIFICATIONS REQUIRE CABLE SUPPORT EVERY 3'-0" ON CENTER. CONTRACTOR SHALL SUPPLY SUPPORTS AS REQUIRED TO MEET THIS REQUIREMENT.
- VERTICAL CONNECTIONS SHALL BE TAPED FROM THE BOTTOM UP SO OVERLAP MOVES WATER AWAY FROM CONNECTION (STEP 9).
- PROVIDE HEAT SHRINK IN PLACE OF TAPE FOR QUAD POLES AND TMA'S. HEAT SHRINK SHALL BE "CANUSA" WITH ADHESIVE.



EXPIRES 11/2016

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**T-Mobile**

19807 NORTH CREEK PARKWAY NORTH  
BOTHELL, WA 98011

**Technology Associates**

**PNW MARKET OFFICE**  
4122 FACTORIA BOULEVARD,  
SUITE 303  
BELLEVUE, WA 98006

**Technology Associates**

**ARCHITECTURE & ENGINEERING**  
5333 MISSION CENTER ROAD, STE. 220  
SAN DIEGO, CA 92108

REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP

JURISDICTION APPROVAL STAMP  
DEPARTMENT FOR LAND USE  
DEPARTMENT FOR BUILDING & CONSTRUCTION

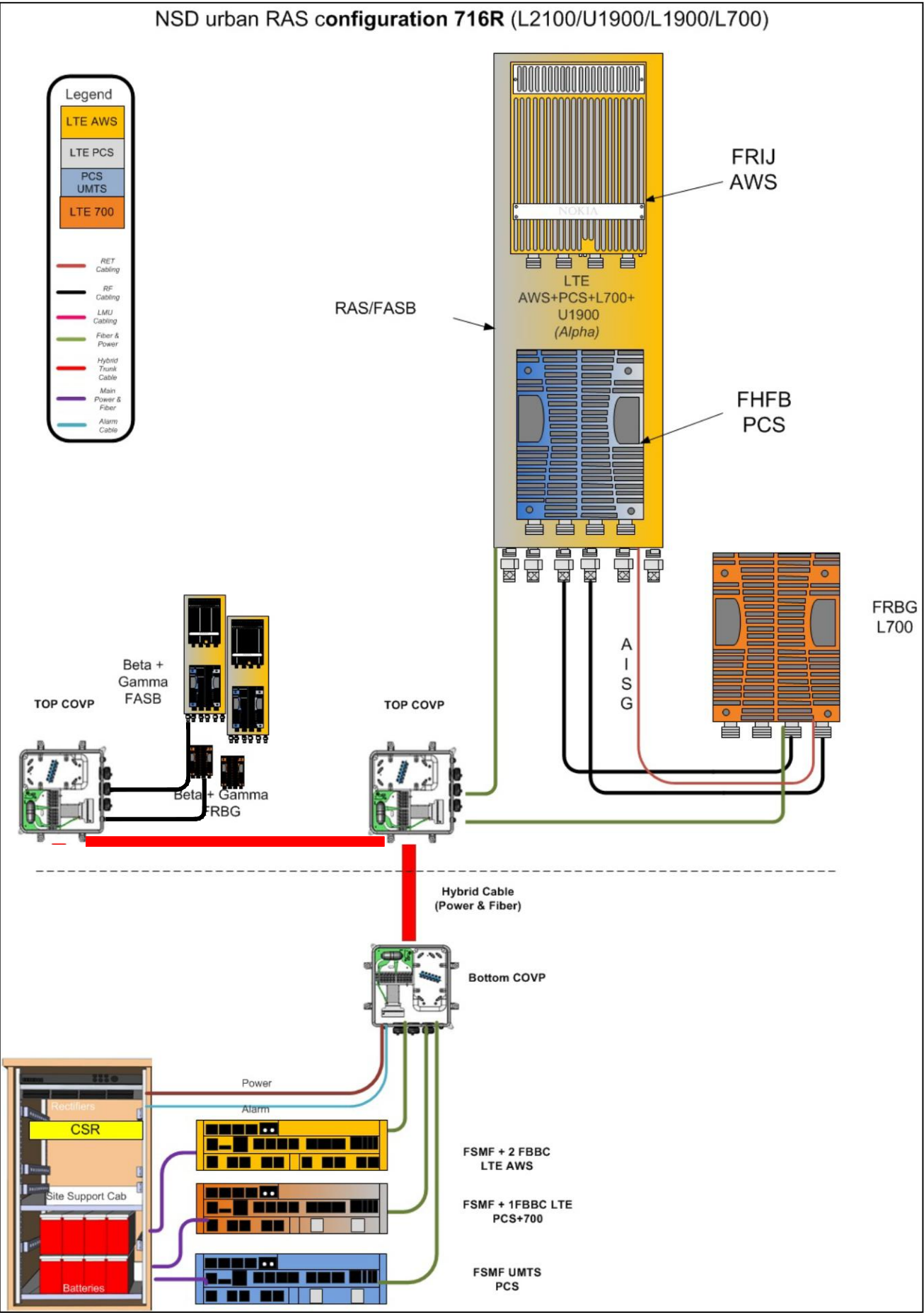
SHEET TITLE

RF DETAILS

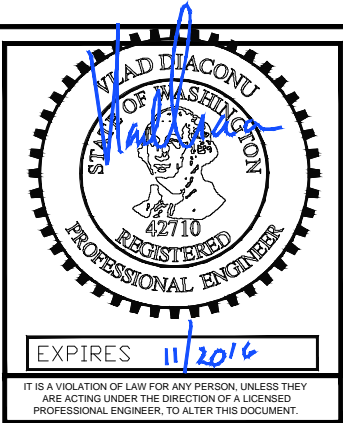
SHEET NUMBER

RF-1

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES



LANDLORD SIGNATURE

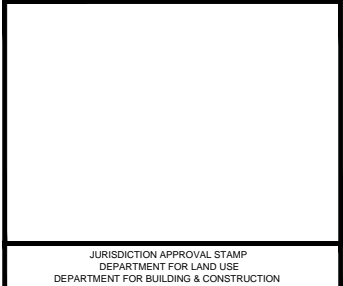


REV	DATE	DESCRIPTION	BY
0	10/17/2016	ISSUED FOR 100%CD	MGM
C	08/17/2016	NEW EQUIP. AREA LOCATION	JCC
B	07/22/2016	ADDED STRUCTURAL DETAILS	MGM
A	07/13/2016	ISSUED FOR 90% CD REVIEW	JCC

SE03416B

SURREY DOWN

11624 SE 5TH STREET  
BELLEVUE, WA 98005  
ROOFTOP



SHEET TITLE

RF DIAGRAM

SHEET NUMBER

RF-2